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March 2, 2012

County of San Diego, Department of Environmental Health (DEH)
Site Assessment and Mitigation Program
P.O. Box 129261
San Diego, California 92112-9261

ATTN: MR. JAMES CLAY

SITE: FORMER OTAY SKEET AND TRAP SHOOTING RANGE
5350 HERITAGE ROAD
CHULA VISTA, CALIFORNIA 91913
VOLUNTARY ASSISTANCE PROGRAM NO. H39635-001

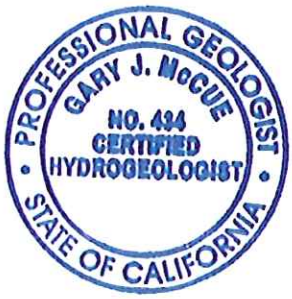
RE: DRAFT REMEDIAL ACTION PLAN

Dear Mr. Clay:

Please find enclosed the Draft Remedial Action Plan (RAP) for the former Otay Skeet and Trap Shooting Range, located at 5350 Heritage Road in Chula Vista, California. The RAP is submitted to DEH pursuant to its designated lead agency role under AB 2061. This RAP has been updated in accordance with DEH's letter dated January 17, 2012 to Mr. Bob Penner of Flat Rock Land Company, LLC, as well as consistent with subsequent communications with DEH and its counterpart County departments. With respect to the comment in the letter regarding the possible transfer of ownership of the site to the City of Chula Vista, Flat Rock does not presently anticipate such a transfer taking place. As a result, we have not included language in the Draft RAP regarding the City's desire that Flat Rock would indemnify the City "due to any future failure of the AOC."

If you have any questions regarding this revised Draft RAP, please contact me at (858) 505-8881 x 4904 or at gmccue@trcsolutions.com. We look forward to receiving your comments and once addressed, finalizing the Draft RAP and proceeding with the public meeting and comment process.

Sincerely,
TRC



Gary J. McCue, PG 5886, CHG 434
Principal Hydrogeologist

cc: Mr. Bob Penner, Flat Rock Land Company, LLC (3 copy)
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Mr. Tom Adler, PE, City of Chula Vista (1 copy)

126697.0000.0000

DRAFT
REMEDIAL ACTION PLAN

FORMER OTAY SKEET AND TRAP SHOOTING RANGE
5350 HERITAGE ROAD, CHULA VISTA, CALIFORNIA

Prepared For:

Flat Rock Land Company, LLC
Carlsbad, California

Prepared By:

TRC
San Diego, California

March 2, 2012

DRAFT
REMEDIAL ACTION PLAN

March 2, 2012

Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California
Voluntary Assistance Program No. H39635-001

TRC Project No.
126697.0000.0000

Prepared For:

Flat Rock Land Company, LLC

1903 Wright Place, Suite 220
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TABLE OF CONTENTS

SECTION **PAGE**

ACRONYMS AND ABBREVIATIONS v

1.0 INTRODUCTION AND SITE BACKGROUND 1
- 1.1 SITE DESCRIPTION 1
- 1.2 FUTURE LAND USE RELATIVE TO REMEDIATION AREAS 4
- 1.3 SITE HISTORY 5
- 1.4 SITE CHARACTERIZATION 5
- 1.5 PREVIOUS REMOVAL ACTIONS TAKEN 8
- 1.6 SITE GEOLOGY, HYDROLOGY AND BIOLOGICAL RESOURCES 8
  - 1.6.1 Geology 8
  - 1.6.2 Hydrogeology 9
  - 1.6.3 Hydrology 10
  - 1.6.4 Biological Resources 10

2.0 SUMMARY OF REMEDIAL INVESTIGATION 11
- 2.1 BACKGROUND CONCENTRATIONS 11
- 2.2 NATURE AND EXTENT OF CONTAMINATION 13
  - 2.2.1 Shooting Range 13
  - 2.2.2 Stockpiles 15
  - 2.2.3 White Material 17
  - 2.2.4 Wood Debris Pile 17
  - 2.2.5 Soil Below Wood Debris Pile 18
  - 2.2.6 Groundwater and Surface Water 19

3.0 REMEDIAL ACTION OBJECTIVES 20
- 3.1 SUMMARY OF RISK ASSESSMENT 20
  - 3.1.1 Baseline Human Health Risk Assessment 20
  - 3.1.2 Ecological Risk Assessment 22
- 3.2 IDENTIFICATION OF APPLICABLE REGULATORY STANDARDS AND REQUIREMENTS 24
- 3.3 DEVELOPMENT OF REMEDIAL ACTION OBJECTIVES 25
  - 3.3.1 Soil Remedial Action Objectives 25
  - 3.3.2 Groundwater Remedial Action Objectives 25
  - 3.3.3 Cleanup Goals to Achieve Remedial Action Objectives 26
- 3.4 AREAS EXCEEDING CLEANUP GOALS 28

4.0 SUMMARY OF FEASIBILITY STUDY 28
- 4.1 TECHNOLOGY SCREENING 29
- 4.2 IDENTIFICATION OF ALTERNATIVES FOR RA1 AND RA2 29
  - 4.2.1 Alternative 1 - Containment Using Consolidation and Capping 29
  - 4.2.2 Alternative 2 - Offsite Disposal 31
  - 4.2.3 Alternative 3 - Soil Treatment Using Onsite Stabilization Combined with Offsite Disposal 31
  - 4.2.4 Alternative 4 - Physical Separation Using Lead Pellet Removal by Wet Screening and Gravity Separation Combined with Disposal 32

4.3 EVALUATION OF ALTERNATIVES AND JUSTIFICATION FOR SELECTED REMEDY FOR RA1 AND RA2 33
4.4 IDENTIFICATION OF ALTERNATIVES FOR THE WOOD DEBRIS PILE 36
4.4.1 Wood Debris Pile Alternative 1 - Excavation and Offsite Disposal 36
4.4.2 Wood Debris Pile Alternative 2 - Excavation, Coarse Separation, and Offsite Disposal 36
4.5 EVALUATION OF ALTERNATIVES AND JUSTIFICATION FOR SELECTED REMEDY FOR THE WOOD DEBRIS PILE 36
4.5 AGENCY ACCEPTANCE OF FEASIBILITY STUDY 39

5.0 PRELIMINARY INFORMATION REGARDING REMEDIAL DESIGN AND IMPLEMENTATION PLAN OF CONSOLIDATION AND CAPPING REMEDY USING AOC ENGINEERED UNIT APPROACH 39
5.1 PERMITTING 40
5.2 UTILITY CLEARANCE AND EXCAVATION IN VICINITY OF SEWER LINE 41
5.3 SITE PREPARATION 41
5.4 REMEDIAL ACTION METHODS AND PROCEDURES 41
5.4.1 Construction of AOC Engineered Unit 41
5.4.2 Shooting Range Remediation Area RA1 42
5.4.3 MSCP Preserve Remediation Area RA2 42
5.4.4 Stockpiles 43
5.4.5 White Material 43
5.4.6 Wood Debris Pile Remediation Area RA3 44
5.4.7 Site Grading Post Remedial Action 44
5.5 PROCEDURES AND PLANS 44

6.0 LONG TERM STEWARDSHIP OF FINAL REMEDY 45
6.1 Institutional Controls 45
6.2 ASSURANCE OF FINANCIAL RESPONSIBILITY 45
6.3 OPERATION AND MAINTENANCE 45

7.0 CALIFORNIA ENVIRONMENTAL QUALITY ACT 46

8.0 IMPLEMENTATION SCHEDULE 46

9.0 PUBLIC PARTICIPATION 47

10.0 REFERENCES 49

FIGURES

1-1 Index Map
1-2 Site Plan
1-3 Extent and Depth of Impact, Remediation Areas RA1 and RA2
1-4 Extent and Depth of Impact, Remediation Area RA2
1-5 Extent of White Material
1-6 Extent of Impact, Remediation Area RA3
1-7 Remediation Areas and Land Use

1-8 Stockpile Locations
1-9 Site Plan Showing Cross-Section Locations
1-10 Cross-Section A-A'
1-11 Cross-Section B-B'
1-12 Cross-Section C-C'
1-13 Cross-Section D-D'
5-1 Site Plan Showing Proposed AOC Engineered Unit
5-2 AOC Engineered Unit Cross Sections

TABLES

4-1 Shooting Range, Summary Evaluation of Retained Alternatives
4-2 Wood Debris Pile, Summary Evaluation of Retained Alternatives

APPENDICES

A TRC Remedial Investigation / Feasibility Study, Selected Tables and Figures
B TRC Additional Site Assessment Regarding Title 22 Metals in Soil and Groundwater Monitoring and Sampling, Selected Tables and Figures
C Foster Wheeler Revised Draft, Focused Remedial Investigation/Feasibility Study Report, Figure 5
D TRC Ecological Phase I Predictive Assessment, Selected Tables and Figures
E Groundwater and Surface Water Monitoring Data Table, and Historical Figures Illustrating Groundwater Elevation and Concentrations from Various TRC Reports
F Supplemental Feasibility Study, Selected Tables and Figures

ACRONYMS AND ABBREVIATIONS

AEIS	Application for an Environmental Initial Study
ALM	Lead Spread and Adult Lead Methodology
AMEC	AMEC Geomatrix, Inc.
AOC	area of contamination
APN	assessor's parcel number
ARARs	applicable or relevant and appropriate requirements
BHHRA	baseline human health risk assessment
BMP	best management practice
CAMU	Corrective Action Management Unit
CDWR	California Department of Water Resources
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CHHSL	California human health screening levels
cm/s	centimeters per second
CRWQCB	California Regional Water Quality Control Board, San Diego Region
CY	cubic yard
DEH	San Diego County Department of Environmental Health
DPLU	Department of Planning and Land Use
DTSC	California Department of Toxic Substances Control
fbg	feet below grade
Flat Rock	Flat Rock Land Company, LLC
FS	Feasibility Study
FWC	Foster Wheeler Environmental Corporation
Geomatrix	Geomatrix Consultants, Inc.
HLIT	Habitat Loss and Incidental Take Ordinance
HSC	California Health and Safety Code
ITRC	Interstate Technology and Regulatory Council
LDR	land disposal restrictions
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MND	mitigated negative declaration
MSCP	Multiple Species Conservation Program

MTR	minimum technology requirements
NA	not applicable
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
ND	not detected above laboratory detection limits
NPDES	National Pollutant Discharge Elimination System
PAH	polynuclear aromatic hydrocarbon
PCOC	potential chemical of concern
PRG	preliminary remediation goal
RA	remediation area
RAO	remedial action objective
RAP	remedial action plan
RBRG	risk based remediation goal
RCRA	Resource Conservation and Recovery Act
RDIP	Remediation Design and Implementation Plan
RI/FS	Remedial Investigation / Feasibility Study
RSLs	Regional Screening Levels
SDCPC	San Diego County Planning Commission
SPLP	Synthetic Precipitation Leaching Procedure
SVOC	semi-volatile organic compounds
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
TBC	to be considered
TCLP	Toxicity Characteristic Leaching Procedure
TRC	TRC Solutions, Inc.
µg/dL	micrograms per deciliter
µg/L	micrograms per liter
µg/kg	micrograms per kilogram
URS	URS Corporation
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WET	Waste Extraction Test

1.0 INTRODUCTION AND SITE BACKGROUND

This Draft Remedial Action Plan (RAP) has been prepared by TRC Solutions, Inc. (TRC), on behalf of Flat Rock Land Company, LLC (Flat Rock) for the final remediation of the former skeet and trap shooting range located at 5350 Heritage Road, Chula Vista, County of San Diego, California (Site) (Figures 1-1, 1-2). As a result of shooting range operations, the impact at the Site includes the presence of lead pellets, lead in soil, target debris and polynuclear aromatic hydrocarbons (PAHs) in the target debris. Impact at the Site also includes wood debris as a result of a former wood recycling facility, and perchlorate-containing fill material (White Material) reportedly used to expand the ranges shooting stations to the east. This RAP has been prepared to address all known environmental impacts to soil and groundwater at the Site.

This RAP has been prepared in coordination with the San Diego County Department of Environmental Health (DEH), pursuant to its designated lead agency role under AB 2061. The RAP is likewise prepared in a manner consistent with discussions and input from the California Department of Toxic Substances Control (DTSC) in connection with DTSC's formal consultative role regarding the Remedial Investigation/Feasibility Study phase (including assessment of human and ecological risk) of this project. The RAP also incorporates comments received from members of the Site Designation Committee Consultative Workgroup, as set forth in DEH correspondence dated January 17, 2012.

This RAP is prepared in accordance with California Health and Safety Code (HSC) Section 25356.1, DTSC's Remedial Action Plan Policy (DTSC, 1995), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) 40 Code of Federal Regulations (CFR) Part 300.

1.1 SITE DESCRIPTION

The Site, which has been the subject of various investigations, is comprised of Parcel A, which is made up of three parcels totaling approximately 268 acres (Figures 1-1 and 1-2). The parcels from north to south and by assessor's parcel number (APN) are as follows:

644-060-13-00, which is approximately 54 acres;
644-060-14-00, which is approximately 106 acres; and
645-030-18-00, which is approximately 108 acres.

The area of impact from shooting range activities within the Site, and in turn the primary area of investigation, is focused on the latter two parcels, as follows:

644-060-14-00; and
645-030-18-00.

The remaining parcel, 644-060-13-00, included the investigation of an area identified as the "Northeast Canyon". That assessment resulted in the conclusion that the parcel had no impacts of significance and that no further assessment was warranted (TRC, 2005a). DEH concurred

with this conclusion (DEH, 2005a). The area identified as the "Southern Canyon", and located on the southern part of parcel 645-030-18-00, was also investigated to assess, in part, potential impact from activities south of and up-topographic gradient of the Site. That assessment also resulted in the conclusion that the parcel had no impacts of significance and that no further assessment was warranted (TRC, 2005c). DEH also concurred with this conclusion (DEH, 2005b).

Within the Site, there are a number of areas of interest as described by previous consultants and by TRC. In conducting remedial investigation activities, TRC has maintained consistent nomenclature to identify these areas (TRC, 2004, 2005b, 2005d, 2006, 2008, 2009a, and 2009b). The areas of investigation have been grouped into larger areas based on the discovery of impact, or not; location within a biologically sensitive area, or not; and/or, the source of impact, that is, shooting range or wood recycling activities. The grouping is not intended to identify different Areas of Contamination (AOCs) as described in the preamble to the NCP (Federal Register, 1990). In fact, all the areas of impact are considered the same AOC, with the exception of the Wood Debris Pile. The "grouped" areas include the following (Figure 1-2):

Remediation Area 1 (RA1) consisting of approximately 31.3 acres and impacted by shooting range activities:

> *Shooting Range Field*: This area of impact is approximately 31 acres and is located from the area of the shooting stations to the Berm to the north and encompasses the fenced area located east of the shooting stations (Figures 1-2 and 1-3);
>
> *Berm*: The Berm is approximately 1 acre with approximately 0.2 acres within RA1 (Figure 1-4). The Berm is discontinuous and is located on the northern boundary of the Shooting Range Field. This structure varies in height and width along the northern Shooting Range Field boundary. The Berm generally occurs between the Shooting Range Field and the Otay River Flood Plain. The bottom of the Berm on the south side is generally at the same elevation as the shooting range field. The bottom of the Berm on the north side is generally at the same elevation as the Otay River Flood Plain. The height of the Berm varies, but its peak height is approximately 9 feet above the shooting range field;
>
> *Sewer*: This area of investigation is located within the Shooting Range Field. An active 24-inch diameter sewer line crosses the Site in an approximate east-west direction near the northern boundary of the shooting range field (Figures 1-2 through 1-4). The top of the sewer pipe is estimated to be approximately 8.5 to 13.5 feet below grade (fbg) across the Site (The Keith Companies, 2004);
>
> *Target Debris Pile*: This area of investigation is located within the Shooting Range Field. The pile is located just north of the trap houses. The pile height varies, but where the pile

was sampled it was approximately 3 feet above the Shooting Range Field (Figures 1-2 and 1-3). The pile is estimated to be approximately 3,000 or more cubic yards;

White Material: This area of investigation is located within the Shooting Range Field. The White Material was discovered during Site investigation activities. The White Material became an area of special significance when it was discovered that it occurs between monitor wells MW-5 and MW-6, the two wells with the highest detections of perchlorate in groundwater (Figure 1-5). The White Material occurs in what is assumed to be fill material emplaced in the early 1970s as a result of expansion of the shooting range trap houses (San Diego County Planning Commission [SDCPC], 1970). There is estimated to be approximately 4,500 cubic yards of soil impacted by the White Material; and

Shooting Range Trap Houses: This area of investigation is located within the Shooting Range Field. The trap houses have not been investigated beyond visual inspection and assessment. Complete investigation of these areas will be performed upon scheduled demolition of the trap houses.

Remediation Area 2 (RA2) consisting of approximately 4.9 acres in biologically sensitive areas and impacted by shooting range activities. This area is continuous from RA1 and within the same AOC:

Target Debris Field: This area is approximately 4.9 acres. The Target Debris Field is within the Otay River flood plain, and for the purposes of this remedial investigation is considered a separate area of interest (Figure 1-4). The area contains scattered clay pigeon target debris. Grid cells within this area have an "HAT" designation, excluding HAT-53 through HAT-55, which are within the berm;

Berm: The Berm is also in RA2. Approximately 0.8 acres of the Berm is within RA2 (Figure 1-4); and

Otay River Flood Plain: The Otay River flood plain runs approximately east-west through the Site. Only approximately 0.12 acres of the flood plain are within the area to be remediated.

Remediation Area 3 (RA3) consisting of approximately 1.4 acres and impacted by wood recycling activities. This area is not continuous with, that is, is separate from, areas RA1 and RA2 (Figure 1-6):

Wood Debris Pile: A pile of wood debris exists at the northwest corner of the property. The pile is estimated to be approximately 6,600 cubic yards.

1.2 FUTURE LAND USE RELATIVE TO REMEDIATION AREAS

Remedial activities will involve the eventual cleanup of approximately 38 acres of land at the Site (Figures 1-3 through 1-6). The Site is located within the Otay Ranch Preserve, an area of permanent open space designated in the City of Chula Vista's Otay Ranch General Development Plan and the County of San Diego Subregional Plan. The Otay Ranch Phase I Resource Management Plan (RMP) designates up to 400 acres of the Otay Ranch Preserve, mostly within the Otay River Valley, as "active recreation," and for siting and design of active recreational uses to be done in consultation with the Otay Valley Regional Park, a joint undertaking of the City of Chula Vista, and the City and County of San Diego. While active recreation was not formally designated under the RMP, the Otay Valley Regional Park Concept Plan, adopted in 1997, designates the property as Recreation Area #10, encompassing approximately "125 acres, currently used as Bird Ranch/Gun Club" (City of Chula Vista and County of San Diego, 1996).

The City of Chula Vista's Multiple Species Conservation Program (MSCP) Subarea Plan also designates the property for active recreation. According to the MSCP, "the Gun Club/Bird Ranch and the area immediately north and east (approximately 110 acres) have been a gun club and ranch and would not be used for habitat management purposes under the conceptual park plan." The proposed remediation activities would be located within areas designated as active recreation and authorized for Take pursuant to the City's MSCP Subarea Plan (City of Chula Vista, 2003). The portion of the property located in the floodplain, north of the active recreation area, is designated as a "100% Conservation Area of the Habitat Preserve" (Figure 1-7). The portion of the property south of the designated active recreation area where no remediation activities are proposed is also designated "100% Conservation Area of the Habitat Preserve" (City of Chula Vista, 2003). Remediation activities will not result in the removal of any sensitive biological resources from "100% Conservation Areas."

In addition, the Site area was designated Open Space on the 1996 General Plan. The majority of the Site has been updated to Open Space- Active Recreation on the 2005 General Plan with 15 acres designated Mixed Use Commercial. Permitted uses will include public and private recreational activities, such as soccer or ball fields, tennis courts, campgrounds, spas, golf courses or driving ranges and commercially-related active recreational uses. "Only limited commercial use/activities related to active recreation would be permitted within this Mixed Use area, consistent with the MSCP Subarea Plan and RMP (City of Chula Vista, 2004)." The Site is zoned Planned Community (PC) as is all of the Otay Ranch. The PC zone implements the Otay Ranch General Development Plan through the approval of a Sectional Planning Area (SPA) Plan. The SPA Plan includes PC District Regulations which are adopted by ordinance and act as the development standards for the Site.

In summary, there are three different types of land use which fall within relevant portions of the Site. The land uses are the following (Figure 1-7):

- Active Recreation;
- Mixed Use Commercial; and

- 100% Conservation Area of the Habitat Preserve (100% Preserve).

Remedial Action Objectives (RAOs) are therefore based on the approved future land use as described above and the potential exposure scenarios that are appropriate for that land use. For RA3 however, the wood debris will be removed and confirmation soil samples will be collected in accordance with the DTSC request in its February 16, 2007 letter, Item 7 (DTSC, 2007). Decisions regarding final closure, or the need for further remediation of soil beneath the Wood Debris Pile, will be based on this subsequent analysis.

1.3 SITE HISTORY

The shooting range was in operation at various times from at least the mid-1960s through approximately the mid-1990s under different ownership and by different operators. According to a previous operator, approximately 80,000 pounds of lead pellets were recovered for recycling in 1995 while the range was still in operation. In addition, approximately 42,940 pounds of lead pellets were recovered in April 2000, after the range ceased operations (DPRA, 2003). Currently, Site structures include an inactive clubhouse, parking lot, and a series of shooting stations with trap houses and high/low skeet houses. The shooting area extends north of these buildings to the Berm, Target Debris Field and Otay River Flood Plain (Figure 1-2).

1.4 SITE CHARACTERIZATION

The following assessments have been conducted at the Site:

September 1999: Dames & Moore conducted a preliminary Site assessment evaluating the general depth and lateral distribution of lead pellets in soil at the Site (Figure 1-3 in Appendix A). Thirty-six soil samples were collected from 13 locations and sieved to separate the soil from the lead pellets (Table 1-1 in Appendix A). Samples were continuously collected at three-inch intervals through the soil using stainless steel tubes until pellets were not visually detected or until sampling refusal (Dames & Moore, 1999; and TRC, 2009b);

February 2001: URS Corporation (URS) collected soil samples to assess the leachability of lead from pellets and the leachability of semi-volatile organic compounds (SVOCs), including PAHs, from the clay target debris found at the Site. Results indicated 55 milligrams per liter (mg/L) of lead in leachate from a sample of lead pellets (URS, 2001);

February 2001: URS drilled five continuous-core soil borings to approximately 10 fbg at the Site (Figure 1-4 in Appendix A). Soil cores were collected in transparent acetate sleeves to permit visual assessment of the presence of lead pellets and target debris in soil. Samples were collected at one-half, five, and ten fbg, and sieved to remove possible pellets and target debris. The sieved soil samples were then analyzed for total lead and SVOCs (URS, 2001) (Table 1-2 and Figure 1-4 in Appendix A);

2001: URS conducted an assessment of herbicides and pesticides in shallow soil at the Site. Soil samples from five borings, AG05, and AG07 through AG10, were analyzed for chlorinated herbicides and organochlorine pesticides using EPA Methods 8150 and 8081, respectively (Figure 2-3 in Appendix B). Chlorinated herbicides were not detected in any of the samples analyzed. Low concentrations of the organochlorine pesticides 4,4-DDD, 4,4-DDE and 4,4-DDT were detected. A summary of detected concentrations and the analytes respective PRG is presented in the following table (URS, 2001).

Detected Organo-chlorine Pesticides	Sample Identification and Results in ug/kg					Federal PRG Residential Soil (ug/kg)	California CHHSL Residential Soil (ug/kg)
	AG05-01	AG07-01	AG08-01	AG09-01	AG010-01		
4,4-DDD	<2	<2	3	<2	<2	2,400	2,300
4,4-DDE	19	6	38	8	11	1,700	1,600
4,4-DDT	6	5	9	5	5	1,700	1,600

Notes:
ug/kg = micrograms per kilogram
PRG = Preliminary Remediation Goals
CHHSL = California Human Health Screening Levels

Based on these data, chlorinated herbicides organochlorine pesticides are not considered a potential chemical of concern (PCOC);

March and August 2002: Foster Wheeler Environmental Corporation (FWC) conducted a limited soil sampling program at the Site. The sampling program was part of FWC's preliminary remedial investigation activities, which included a focused feasibility study, and (1) extended the preliminary assessment completed by Dames & Moore described above, (2) evaluated characteristics of the lead-impacted soil to evaluate potential disposal options, (3) collected additional soil samples from the Site which were used for bench-scale treatability studies, and (4) analyzed clay target debris present on the Site regarding characteristics and potential disposal options (FWC, 2002a and 2002b). Soil sample locations are shown on Figure 1-5 in Appendix A and Figure 5 in Appendix C, and soil samples results are summarized in Table 1-3 in Appendix A and on Figure 5 in Appendix C;

2004: URS conducted a focused ecological risk screening for the Otay River area as a result of skeet and trap shooting range activities. URS concluded that risk to populations of herbivorous mammals and birds from eating plants impacted by operation of the skeet and trap shooting range is unlikely (URS, 2004);

February through April 2004, June 2004, December 2004, and January 2005: TRC conducted various detailed investigations of the Shooting Range Field, Median, Sewer, Berm, Target Debris Field, and Otay River Flood Plain, including the drilling of 205 hand borings, 225 Strataprobe borings, 4 hollow-stem auger borings that were drilled to install monitor wells, and 98 trenches using a backhoe. Boring and sample locations are presented on Figures 2-1 through 2-3 in Appendix A (TRC, 2004, 2005b, and 2005d). The results of sample sieving for lead pellets and laboratory analysis is presented in Tables 2-1 through 2-4 in Appendix A.

April 2004: TRC discovered deposits of white material during soil trenching in Trench T-A through T-D. Soil samples were collected and an additional five hand auger borings and nineteen Strataprobe borings were drilled during June and July 2004 to investigate the White Material. The White Material in this area was found at depths ranging from the surface to six fbg and range from ¼ ft to 1 foot thick. These investigations have shown that the White material is a potential source of perchlorate (TRC, 2004, 2005b, 2005d). White Material trench, sample, and boring locations are shown on Figure 2-5 in Appendix A. White Material sample data are presented in Tables 2-11 and 2-12, and in Appendix A.

January 2005: TRC sampled wood from the Wood Debris Pile to assess potential future disposal options (TRC, 2004, 2005c, 2005d). Wood sample locations are presented in Figure 2-7 in Appendix A. Wood sample data are presented in Tables 2-14 through 2-17, also in Appendix A.

August 2007: TRC drilled 13 shallow geologic assessment borings from approximately 1 to 3 fbg to assess the geologic similarity of shooting range soils to background soils. Boring locations are shown in Figure 3-3 in Appendix B (TRC, 2008);

October 2007: TRC collected 10 soil samples from across the Site to assess background soil concentrations of Title 22 metals. Soil sample locations are shown on Figure 3-2 in Appendix B, and the laboratory results are summarized on Table 4-2 also in Appendix B (TRC, 2008);

October 2007: TRC conducted an investigation within RA1 and RA2 in accordance with DTSC recommendations. Fifteen Strataprobe borings and five hand borings were drilled at the Site. Boring locations are shown on Figure 3-1 in Appendix B, and lead pellet sieving results and laboratory analysis results are summarized on Tables 4-1 and 4-2, also in Appendix B (TRC, 2008).

January 2011: TRC collected 14 soil samples from RA2. This sampling was done for the ecological Phase I Predictive Assessment. Soil sample locations are shown on Figure A-2 in Appendix D and lead pellet sieving and laboratory results are presented on Tables A-1 and A-2 (TRC, 2011a).

1.5 PREVIOUS REMOVAL ACTIONS TAKEN

There have been no removal actions taken at the Site.

1.6 SITE GEOLOGY, HYDROLOGY AND BIOLOGICAL RESOURCES

The Site parcel includes portions of the Otay River flood plain, Otay Valley terraces, and mesa slopes bounding the valley to the north and south. As discussed above, portions of the Site are within the Otay Ranch Preserve, and are therefore subject to the City of Chula Vista MSCP.

1.6.1 Geology

Based on published literature, the southern portion of the study area is underlain by Pleistocene-aged stream-terrace deposits, while the northern portion of the study area, which includes the Otay Valley flood plain, is underlain by younger alluvium and slope wash. Approximately one-half mile to the east is Rock Mountain, composed of the Jurassic-aged Santiago Peak Volcanics (Kennedy and Tan, 1977). The southern half of Rock Mountain is an active rock and gravel quarry. Just south of the skeet and trap shooting range, the Mission Valley Formation outcrops in the mesa slope. The Mission Valley formation is also present north of the Otay River flood plain within the northern slope of the valley (Figure 2-4 in Appendix B).

The Mission Valley Formation is composed of marine, lagoonal, and nonmarine sandstone. The formation is locally interstratified with carbonate-cemented beds (Kennedy and Peterson, 1975). The Kennedy and Peterson-referenced carbonate-cemented beds may correlate to the carbonate rock visible on the eastern side of Heritage Road just south of the skeet and trap shooting range. The carbonate rock has the same general characteristics as the white material that was discovered onsite during the investigation of the eastern trap houses (TRC, 2004). This white material is assumed to be derived from the carbonate rock within the Mission Valley Formation. The surface geology is mapped as stream-terrace deposits in the area of the white material, shooting stations, and skeet and trap houses (Kennedy and Tan, 1977). Based on this geologic mapping, the white material is assumed to be fill. Based on an SDCPC permit, the white material is assumed to have been emplaced in the early 1970s as part of a shooting range expansion (SDCPC, 1970).

On October 18, 2005, TRC personnel met with James Clay and Kevin Heaton of DEH at the road cut south of the skeet and trap shooting range and east of Heritage Road. The purpose of the meeting was to confirm the locations of the soil samples collected from the Mission Valley Formation on January 19, 2005, and to discuss the nature of the carbonate deposits within the formation. Personnel from DEH suggested that the carbonate deposits are potentially caliche, which were deposited after the deposition of the Mission Valley Formation as secondary precipitates (TRC, 2005d).

Observations by TRC personnel during previous investigations indicate that the Site is generally underlain by silty and clayey sands, silts and clays, and sands and gravels. In the vicinity of wells MW-5 and MW-6, the near-surface deposits are underlain by a discontinuous layer of sand, gravel, and cobbles with a thickness ranging from approximately 2 to 16 feet. Clay underlying these sands and gravels was observed during the drilling of MW-5, with an observed thickness of approximately 22 feet. Although this clay was not observed in MW-6, it was observed in boring GT-3, which was drilled to assess physical characteristics of soil beneath the Site. Note that soil samples were not collected from MW-6 or any of the other borings converted to or intended to be converted to monitoring wells. These borings were drilled using air rotary, thus the lithologic data from these borings are considered less reliable than borings GT-1 through GT-4 borings, which were continuously sampled.

Geologic cross sections are shown on Figures 1-9 through 1-13. Physical parameter analysis of the Site soils and lead leachate column studies show that Site soils and the soil underlying the impacted soils are of very low permeability, ranging from 1.1×10^{-6} to 3.5×10^{-7} centimeters per second (cm/s) for the samples that were analyzed, similar to a land fill clay liner (TRC, 2009b). Table 1-2 in Appendix F shows the soil physical properties for soil tested at the Site.

1.6.2 Hydrogeology

The Site is located in the Otay Valley Hydrologic Area (HA) of the Otay Hydrologic Unit. Groundwater within the Otay Valley HA is designated as having beneficial uses for existing municipal, agricultural, and industrial supplies (California Regional Water Quality Control Board, San Diego Region [CRWQCB], 1994).

Groundwater occurs at approximately 60 to 65 fbg in the vicinity of the trap houses. At the northern edge of the shooting range field, groundwater is at approximately 17 fbg. Three production wells exist on the property. Based on routine groundwater monitoring, the groundwater flow direction is generally to the southwest (Appendix E) (TRC, 2011b).

A well search was conducted researching DEH and California Department of Water Resources (CDWR) documents. Four wells are known to exist on the Site property. Well N1 (State well no. 18S/1W-21N1), designated AW-3 by TRC, is active and provides water used for dust control for the rock quarry. TRC understands that during past groundwater sampling events, AW-3 was generally pumped every weekday for use at the quarry located northeast of the Site. The well was drilled to approximately 591 fbg and the well casing is perforated from 60 to 80 fbg and from 421 to 570 fbg. Between the two perforated intervals is approximately 341 feet of "clay" and "silty clay" (CDWR, 1952; URS, 2000). Two inactive wells, AW-1 and AW-2, are located approximately 1,200 feet west of the active well. The wells are greater than 200 feet and approximately 75.5 feet deep, respectively. No documents were found by TRC listing these wells. The 113-foot deep triple-nested well in the Otay River bed, previously designated by TRC as RMW-1,2,3, was installed in 1987 as State Well No. 18S/1W-20J1 as multiple piezometers.

One well, shown as well 20Q1 bordering the west property line, was shown on a CDWR Well Location Base Map (Figure 2-9 in Appendix B) (CDWR, no date), and is likely abandoned. No other records were found regarding the use or existence of this well, nor was it located in the field. No other active production wells were found to be within the Site vicinity. Six locations of likely destroyed or unsuccessfully attempted wells are within the Site vicinity (Figure 2-9 in Appendix B; and Table 2-2 in Appendix B).

1.6.3 Hydrology

The Otay River flows across the northern portion of the Site, from east to west (United States Geological Survey [USGS], 1975) (Figures 1-1 and 1-2). Water flow across the riverbed is variable. At times there is no visible flow within the river based on observations by TRC field personnel (TRC, 2004). The Otay River has been designated as having existing beneficial uses as a source for agricultural water supplies, for non-contact water recreational sports, for warm freshwater habitat, as a wildlife habitat water supply, and as a rare, threatened, or endangered species habitat water supply. In addition, the Otay River has been designated as having potential beneficial uses as a source for industrial water supplies, and for contact water recreational sports (CRWQCB, 1994).

1.6.4 Biological Resources

The Chula Vista MSCP Preserve Area is situated within the Otay Ranch Preserve, an area that includes in total 11,375 acres to be set aside as permanent open space designated in the City of Chula Vista's Otay Ranch General Development Plan and the County of San Diego's Subregional Plan (Otay Ranch GDP/SRP). This designation is for permanent conservation areas that are managed for their biological resources as a component of the comprehensive MSCP which addresses the requirements of multiple rare species by preserving natural vegetation communities within San Diego County (Chula Vista MSCP, 2003). These dedicated conservation lands will also serve to connect large areas of open space through a series of wildlife corridors, including connections between large, regional open spaces, such as Otay Reservoir and San Miguel Mountain.

One native vegetation community, coastal sage scrub, and three non-native plant communities, tamarisk scrub, disturbed/ruderal, and non-native grassland, occur within or adjacent to the MSCP Preserve Area in the vicinity of the former shooting range.

The MSCP Preserve Area supports a diverse assemblage of wildlife species in the tamarisk scrub and coastal sage scrub communities. There are two state and federally listed sensitive bird species occurring within the MSCP Preserve Area. They are the coastal California gnatcatcher (*Polioptila californica californica*, federally threatened) and least Bell's vireo (*Vireo bellii pusillus*, federally and state endangered). Other sensitive bird species (Species of Special Concern) observed during surveys include the California horned lark (*Eremophila alpestris actia*), Southern California rufous-crowned sparrow (*Aimophila ruficeps canescen*), Cooper's hawk (*Accipiter cooperii*), and northern harrier (*Circus cyaneus*). One special status plant

species, the San Diego marsh-elder (*Iva hayesiana*), has also been identified on the MSCP Preserve Area (TRC, 2011a). A California Native Plant Society List 4 species observed on the MSCP Preserve Area, specifically the San Diego Sunflower (*Viguiera laciniata*), is not considered special status.

2.0 SUMMARY OF REMEDIAL INVESTIGATION

2.1 BACKGROUND CONCENTRATIONS

In October 2007, as part of an approved workplan for additional site assessment activities, TRC collected background soil samples from areas of the Site not impacted by shooting range operations. The location of the soil samples were selected in consultation with DEH and DTSC. The locations were selected based on soil type similarity to the Site's soils where impact does exist, and location relative to prevailing wind direction and topographic gradient from the Site. Samples were collected at a depth of approximately 6 to 12 inches. The locations of the ten background soil samples are depicted on Figure 3-2 in Appendix B. Two sets of soil samples were collected, which were the following (TRC, 2008):

- Six soil samples from the area southwest of the former shooting range in Quaternary stream-terrace deposits in an area upwind and up-topographical gradient of impacted soil; and
- Four soil samples from the Otay River Flood Plain in Quaternary alluvium slope wash at the east and west extremes of the Site property line.

Based on laboratory analysis of these soil samples using USEPA Methods 6020 for Title 22 metals, except for mercury, which was analyzed using USEPA Method 7471A; arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium and zinc are present in background soils at the following concentrations:

Detected Title 22 Metals	Range of Detected Concentrations in Background Samples (mg/kg)		
Arsenic	ND	to	9.83
Barium	39.8	to	205
Cadmium	ND	to	ND
Chromium	ND	to	18.9
Cobalt	ND	to	6.91
Copper	ND	to	70.9
Lead	ND	to	18.2
Nickel	ND	to	9.41
Vanadium	21.6	to	32.4

Detected Title 22 Metals	Range of Detected Concentrations in Background Samples (mg/kg)		
Zinc	22.7	to	60

Notes:
mg/kg = milligrams per kilogram
ND = not detected above laboratory detection limits

At the time this data was collected, DTSC was considering whether arsenic should be a PCOC. Geomatrix Consultants, Inc. (Geomatrix) conducted a statistical evaluation of the background and shooting range arsenic concentrations to assess if arsenic was a PCOC. Based on the statistical evaluation, Geomatrix concluded that the concentrations of arsenic in Site soil samples are consistent with local background concentrations, indicating that arsenic is not a Site-related PCOC. Geomatrix based this conclusion on the following (Geomatrix, 2008):

- DTSC guidance: Geomatrix used the DTSC guidance document *Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities* as the basis for the evaluation;

- A data outlier evaluation: The background arsenic concentration data was evaluated using graphical techniques and the Dixon's Extreme Value test. The highest background arsenic concentration of 9.83 milligrams per kilogram (mg/kg) was found to be a statistical outlier; and

- A background evaluation: The background arsenic concentration data, excluding the 9.83 mg/kg outlier, was compared to the shooting range concentration data using the Mann-Whitney test. Geomatrix found no statistical difference between on Site arsenic data set and the background data set.

DTSC and DEH concurred with these conclusions.

The background data was further evaluated in 2010 by TRC as part of ecological risk assessment activities conducted on behalf of Flat Rock, in coordination with DEH and DTSC. Detected metals concentrations in soil from RA2 were compared with background concentrations using a number of statistical tests. Based on the statistical comparison to background concentrations, only lead in soil was retained as an ecological PCOC (TRC, 2010a).

2.2 NATURE AND EXTENT OF CONTAMINATION

2.2.1 Shooting Range

The PCOCs at shooting ranges are well documented. For skeet and trap ranges, lead from lead shot is the primary metal PCOC. Lead shot typically contains 97 percent lead, 2 percent antimony, 0.5 percent arsenic and sometimes 0.5 percent nickel. Therefore, secondary PCOCs include antimony, arsenic and nickel. However, lead is the primary risk driver (Interstate Technology and Regulatory Council [ITRC], 2003; and United States Environmental Protection Agency [USEPA], 2003).

The clay targets used at skeet and trap shooting ranges typically contain approximately 67 percent limestone and 32 to 33 percent pitch, and if painted, 1 percent fluorescent paint. The pitch contains PAHs, which are the primary PCOCs from the targets (Baer et al., 1995; and USEPA, 2003). In the case of the Site, every sample that had detectable concentrations of PAHs during field investigations had detectable concentrations of benzo(a)pyrene at concentrations exceeding the then USEPA residential Preliminary Remediation Goal (PRG) of 62 micrograms per kilogram (µg/kg) (TRC, 2004). Since the submittal of the RI/FS, the USEPA has moved from PRGs to Regional Screening Levels (RSLs). The benzo(a)pyrene PRG of 62 µg/kg has been superseded by the RSL of 15 µg/kg (USEPA, 2009). Therefore, every sample that had detectable concentrations of PAHs also exceeded the RSL for benzo(a)pyrene. Therefore, TRC recommends using benzo(a)pyrene as the indicator of the general nature and extent of PAHs at the Site (TRC, 2009b).

For soil, the extent of lead and PAH impacts to soil are shown on Figure 1-4. The lead impact is based on impact greater than 150 mg/kg or 160 mg/kg, which are the most conservative risk based remediation goals (RBRGs) for active recreation and mixed-use commercial, respectively (see Section 2). The following summarizes lead and PAH impacts to soil in the shooting range and river floodplain areas. A total of approximately 65,000 cubic yards of soil from these areas is considered to be potentially impacted (this also includes stockpiles). Boring, sample, and trench locations; and sieving and laboratory results are summarized in the RI/FS and the Additional Site Assessment Regarding Title 22 Metals in Soil and Groundwater Monitoring and Sampling (TRC, 2005d and 2008).

- Lead Pellets - Lead pellet-impacted soil exists to approximately 3.5 fbg in the Shooting Range Field, 3.5 fbg in the Berm, 8 fbg in the Sewer Trench Backfill and 1 fbg in the target debris field. It appears that during installation of the sewer, onsite lead-pellet impacted soil was excavated and then used as part of the backfill for the trench in which the sewer was installed. One pellet was found in a sample collected from ground surface to 0.5 fbg in the Otay River floodplain. The lead pellet-impacted soil has been adequately assessed vertically and laterally.

- Total Lead - Soil with total lead concentrations exceeding RBRGs (150 or 160 mg/kg total lead) exists to approximately 3 fbg in the shooting range field, 2.5 fbg in the berm, at least 4.5 fbg in the sewer trench backfill, at least 5.5 fbg in the target debris pile, and 0.5 fbg in the target debris field. This soil has been adequately assessed vertically and laterally. Based on the investigation of the shooting range field, it generally appears that total lead-impacted soil is not found deeper than the lead pellets at concentrations exceeding the threshold of 150 mg/kg.

- Soluble Lead - Soil with Waste Extraction Test (WET) soluble lead concentrations exceeding 5 mg/L exists to approximately 3 fbg in the shooting range field, 2.5 fbg in the berm, at least 4.5 fbg in the sewer trench backfill, 5.5 fbg in the target debris pile, and as deep as 0.5 fbg in the target debris field. This soil has been adequately assessed vertically and laterally. Soil with Toxicity Characteristic Leaching Procedure (TCLP) soluble lead concentrations exceeding 5 mg/L exists to approximately 2 fbg in the shooting range field, 0.5 fbg in the target debris field, and was not detected in other areas. This soil has been adequately assessed vertically and laterally.

Based on the investigation of the shooting range field, it generally appears that soluble lead-impacted soil is not found deeper than the lead pellets at concentrations exceeding the threshold of 5 mg/L.

Synthetic Precipitation Leaching Procedure (SPLP) soluble lead concentrations exceeded the Federal tap water action level of 0.015 mg/L at soil concentrations less than 150 mg/kg total lead. Because the effects of soil permeability and leachate attenuation are not simulated, SPLP testing is not considered to be representative of field conditions. Therefore, a different method, column leachate testing, was utilized for soil leachability.

The column testing that was conducted to assess the leachability of 6-inches of impacted soil overlying 6-inches of non-impacted native soil is considered to be more representative of actual field conditions than the SPLP testing. Based on the column testing, it appears that lead-impacted soil that does not contain lead pellets, is at least 6-inches above groundwater and has a total lead concentration of 350 mg/kg or less, will not adversely impact groundwater above the Federal tap water action level of 0.015 mg/L.

- PAHs - Soil with detected benzo(a)pyrene concentrations exists to approximately 2.5 fbg in the shooting range field, at least 0.5 fbg in the berm, at least 6 fbg in the target debris pile, and 0.5 fbg in the target debris field. Benzo(a)pyrene-impacted soil, and thus all PAH-impacted soil, has been adequately assessed vertically and laterally.

- Title 22 Metals – In addition to lead, 16 other metals were specifically evaluated by DTSC as part of the RI/FS process. In the original RI/FS, lead was the only metal evaluated to determine appropriate cleanup goals (TRC, 2005d). In 2007, DTSC requested additional site assessment regarding Title 22 metals in Site and background soils (DTSC, 2007).

TRC subsequently conducted additional assessment activities on-Site and in background areas and found that the Title 22 metals arsenic, barium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc occur in shooting range soils, and except for cadmium, all also occur naturally in background soils. All the Title 22 metals found in shooting range soils, except arsenic, cadmium, and lead, were less than federal PRG and California Human Health Screening Level (CHHSL) promulgated at that time for residential soil. The USEPA change from PRGs to RSLs has not affected the above conclusion. In addition, the CHHSL for lead has been reduced from 150 mg/kg to 83 mg/kg since these data were reported (CalEPA, 2009). Because cadmium was only detected in one sample and is not a known potential contaminant of concern associated with skeet and trap shooting ranges, cadmium is not considered a PCOC.

Geomatrix Consultants, Inc. (Geomatrix) conducted a statistical evaluation of the background and shooting range arsenic concentrations using DTSC guidance. Geomatrix concluded that the concentrations of arsenic in Site soil samples are consistent with local background concentrations, indicating that arsenic is not a Site-related PCOC (Geomatrix, 2008). Based on all the assessment activities to date, lead is the only Title 22 metal considered a PCOC (TRC, 2008). The DTSC concurred with this assessment with the caveat that the local geologic units Quaternary Alluvium and Slope Wash (Qal & Qsw) have slightly higher arsenic concentrations than the Quaternary Terrace Deposits (Qt) (DTSC, 2008a).

Remediation area RA2, consisting of the Target Debris Field and two other smaller areas of impact within the Otay River Flood Plain, is contiguous with the rest of the shooting range. However, the flood plain is a biologically sensitive area with a designated land use of 100% Preserve. Although it has been found to be impacted by shooting range activities, as discussed above, all impacts in the flood plain, including lead pellets, total lead concentrations exceeding 150 mg/kg, WET and TCLP soluble lead concentrations exceeding 5 mg/L, and detectable benzo(a)pyrene concentrations, were found only in surface samples collected from 0 to 0.5 fbg. The exception was one sample, HAT-47-0.5, which was collected from 0.5 to 1 fbg. HAT-47-0.5 was reported to contain one lead pellet (TRC, 2005a). Given the data, limiting "excavation" within the flood plain to removal of visible surface material may be sufficient to achieve the RAOs. Surface confirmation sampling would be conducted after removal activities to confirm the effectiveness of this approach. Excavation to and confirmation sampling of deeper soil in the area of HAT-47-0.5 would not be conducted.

2.2.2 Stockpiles

The existing stockpiles and one former stockpile at the Site are illustrated in Figure 1-8. The following summarizes the stockpiles:

- The Stockpile Near Heritage Road and a Former Stockpile southwest of the clubhouse were assessed by Foster Wheeler in 2002. The Former Stockpile southwest of clubhouse appears to have been consolidated into stockpile SP-13. Total lead concentrations in the

Stockpile Near Heritage Road ranged from 532 to 46,600 mg/kg. Soluble lead using WET was not conducted. Soluble lead using TCLP ranged from 9.9 to 38.6 mg/L (FWC, 2002a);

- Soil stockpiles SP-1 through SP-6 represent clean soil imported to the Site and used as trench backfill. No remedial effort is required for these stockpiles;
- Stockpile SP-7 consists of soil cuttings from borings MW-3 and MW-4 and is approximately 2 cubic yards. Total lead results were 7.03 and 9.24 mg/kg. SVOCs were not detected above laboratory detection limits (ND). No remedial effort is required for this stockpile;
- Stockpile SP-8 consists of soil cuttings from wells MW-5 and MW-6 and is approximately 2 cubic yards. Total lead results were 8.79 and 12.8 mg/kg. SVOCs were ND. No remedial effort is required for this stockpile;
- Stockpile SP-9 consists of soil cuttings from wells MW-7 and MW-8 and is approximately 2 cubic yards. Total lead results were 3.67 and 7.96 mg/kg. Several SVOCs were detected in the two samples analyzed, including benzo(a)pyrene, with concentrations of 567 µg/kg and 585 µg/kg;
- Stockpile SP-10 consists of soil excavated during the assessment of soil beneath the wood debris pile. The stockpile is approximately 8 cubic yards. Laboratory results for total lead ranged from 24.1 mg/kg to 125 mg/kg. The one sample with the 125-mg/kg result was additionally analyzed for soluble lead using the WET method, with a result of 6.54 mg/L. The same sample was further analyzed for soluble lead, using the TCLP method, which was not detected. SVOC results for two of the four samples collected were below laboratory detection limits for all SVOC compounds. Benzo(a)pyrene was not detected in any of the four samples;
- Stockpile SP-11 is from soil trenching activities and is approximately 100 cubic yards. This stockpile is not visually impacted with lead pellets or target debris. Total lead concentrations ranged from 5.66 to 54.3 mg/kg. However, soluble lead using WET was 8.09 mg/kg. All samples from stockpile SP-11 were below the laboratory detection limits for all SVOCs;
- Stockpile SP-12 is from soil trenching activities and is approximately 65 cubic yards. This stockpile is visually impacted with lead pellets and target debris. Total lead concentrations ranged from 156 to 434 mg/kg. Soluble lead using WET ranged from 9.97 to 318 mg/L. Soluble lead using TCLP ranged from 0.938 to 10.6 ug/L. Two of the four samples from this stockpile, SP-12-3 and SP-12-4, had detectable SVOCs, including 16,500 µg/kg and 1,640 µg/kg benzo(a)pyrene; and
- Stockpile SP-13 is from the consolidation of the Former Stockpile southwest of the clubhouse and assessed by Foster Wheeler (2002a). It is approximately 300 cubic yards. Total lead concentrations ranged from 202 to 223,000 mg/kg, Soluble lead using WET ranged from 1.52 to 235 mg/L. Soluble lead using TCLP ranged from 0.094 to 0.314 mg/L. SVOCs were detected in all samples. Concentrations of benzo(a)pyrene ranged from 327 mg/kg to 850 mg/kg, while benzo(a)pyrene in a pure target fragment sample was 2,580 mg/kg.

2.2.3 White Material

The only known PCOC for the White Material is perchlorate. The White Material appears to be a carbonate rock of similar appearance as the Mission Valley Formation carbonate rock that outcrops on the eastern side of Heritage Road just south of the skeet and trap shooting range as described in the RI/FS. This outcrop contains perchlorate and is a potential source of the white material that appears to have been backfilled onsite in the early 1970s (TRC, 2005d).

The White Material is estimated to be approximately 4,500 cubic yards (White Material plus intermixed soil) and is located in an area coincident with the eastern shooting stations, trap houses and skeet houses (Figure 1-2). The White Material contains perchlorate with reported concentrations as high as 123 µg/kg. The soil underlying the White Material has perchlorate concentrations as high as 10.6 µg/kg. Based on the data, the perchlorate appears to have leached from the White Material into the underlying soil.

The DTSC approved the BHHRA contingent upon monitoring groundwater for perchlorate and removal of the White Material from the Site (DTSC, 2009a and 2009b). Groundwater monitoring for perchlorate is ongoing, and removal of the White Material from the Site has been incorporated into the RAOs.

2.2.4 Wood Debris Pile

Typical PCOCs for treated wood include copper, arsenic, pentachlorophenol, naphthalene, and creosote (Iback, 1999). TRC has observed that the wood debris pile contains uncommon items other than wood including, but not limited to, discarded plastic bags, oily rags, trash, and an automobile battery. In addition, the DPRA workplan cites a 1997 observation of "lead acid batteries and paint cans around the debris pile" (DPRA, 2003). Observed wood debris includes pressure-treated lumber, railroad ties, utility poles, furniture, paint-coated wood/furniture, construction-related wood debris including plywood, and sawdust. It is likely that the wood debris pile and other refuse is the source of the PCOCs in soil (TRC, 2005c).

The Wood Debris Pile encompasses an area of approximately 1.4 acres (Figure 1-2). According to a report by the URS, a wood recycling business may have operated there during an undisclosed period of time (URS, 2000). The County of San Diego in 1998 issued an Official Notice and a subsequent Administrative Order stating the wood pile was a public nuisance in violation of Title 27 CCR and San Diego County Code and ordered the removal of the pile from the Site (County of San Diego, 1998a and 1998b). The laboratory data for the wood debris pile will be used for landfill profiling purposes. The Wood Debris Pile was not evaluated for PCOCs or risk; rather the focus has been to evaluate remedial alternatives for the pile to comply with the County order to remove it from the Site.

Samples of wood were collected to characterize the debris pile for waste disposal purposes with the following results (TRC, 2005c and 2005d).

- Title 22 Metals and Soluble Metals - Reported Title 22 Metals results indicate metals in all wood samples were below total threshold limit concentration (TTLC) levels for hazardous waste classification. However, one sample exceeded the Soluble Threshold Limit Concentration (STLC) for chromium and another sample exceeded the STLC soluble limit for zinc, therefore, two samples exhibited the characteristic of toxicity under the California Code of Regulations (CCR), Title 22, Section 66261.24.

- Petroleum Hydrocarbons - Concentrations of gasoline-range total petroleum hydrocarbons (TPH) (carbon chain range C6 to C10) ranged from below laboratory detection limits to 2,260 mg/kg. Concentrations of diesel-range TPH (carbon chain range C10 to C22) ranged from below laboratory detection limits to 14,000 mg/kg. Concentrations of heavy hydrocarbon-range TPH (carbon chain range C22 to C36) ranged from below laboratory detection limits to 9,090 mg/kg.

- Volatile Organic Compounds (VOCs) - Various concentrations of VOCs were detected. Naphthalene was detected in 15 samples, ranging from 52 µg/kg to 593,000 µg/kg. Seven samples tested positive for ρ-isopropyltoluene, with concentrations ranging from 14 µg/kg to 309 µg/kg.

- SVOCs - Various concentrations of SVOCs were detected. Sample WPS-31 contained the highest concentrations of several analytes, including anthracene at 1,370,000 µg/kg, benzo(a)pyrene at 112,000 µg/kg, fluoranthene at 2,040,000 µg/kg, phenanthrene at 3,090,000 µg/kg, and pyrene at 1,510,000 µg/kg. Only the detected organic compound pentachlorophenol has a listed TTLC level of 17 mg/kg. This value is greater than the highest result of 3.58 mg/kg, which is for sample WPS-7.

- Fish Bioassay - Wood samples WPS-15, -23, and -31 contained among the highest concentrations for TPH-ext, VOCs, and SVOCs. Sample WPS-15 was collected from a section of rotted construction wood, sample WPS-23 was collected from a piece of ¼-inch plywood with paint, and sample WPS-31 was collected from a railroad tie. These samples were used in the fish bioassay test. Bioassay results indicate the test passed (e.g., less than 25% of the original test population of fish died during the time the test was conducted).

DTSC has required that confirmation soil samples be collected from beneath the Wood Debris Pile at the time of removal of the pile (DTSC, 2007). The final remedy set forth as part of this RAP incorporates that request.

2.2.5 Soil Below Wood Debris Pile

To assess if the Wood Debris Pile has impacted the underlying soil, 15 soil samples were collected and laboratory analyzed. Additional soil sampling was recommended by the DTSC

beneath the wood debris pile for metals and SVOCs (DTSC, 2007). Consistent with the request, further soil sampling in this area will be conducted when the wood debris and related materials are removed from the Site. The following presents the results of the 15 soil samples already collected (TRC, 2005c and 2005d):

- Title 22 Metals - Laboratory results from soil samples collected below the wood debris pile indicate the metals copper, lead, thallium, and zinc exceed the maximum background concentration for California soils. It appears, however, that the detected concentrations are not significant to human health.

Twelve out of 15 samples collected from the soil beneath the wood debris pile exceed the residential PRG for thallium and 13 out of 15 samples and also exceed the lowest residential RSL of 5.1 mg/kg for thallium chemicals. No samples exceed the thallium industrial PRG. The results are also below the new industrial RSL which replaced the industrial PRG. The industrial RSL for thallium chemicals range from 66 to 92 mg/kg (USEPA, 2009) and the maximum thallium concentration detected was 10.4 mg/kg. Thallium was not detected in the overlying wood debris. The source of the thallium is unknown. The area of the Wood Debris Pile will reportedly be developed into a larger intersection of Heritage Road and Main Street and will not be a residential or a recreational area. Therefore, industrial RSLs are likely appropriate for assessing the need for further work. Based on these data and future Site use, it appears that the detected concentrations are not significant to human health.

- VOCs - The VOC chloroform was detected in one sample. Chloroform is used commonly in analytical chemistry and appears likely to be a laboratory contaminant. The VOC 2-butanone (methyl ethyl ketone) was detected at 10 µg /kg (J flagged) in one soil sample at concentrations less than the residential PRG. The RSL for this chemical is 28,000 mg/kg. Therefore, it appears that the detected concentrations are not significant to human health and further assessment is not warranted.

- SVOCs - The SVOC bis(2-ethylhexyl)phthalate was found in three samples. Some plastics and equipment used in the laboratory and in the field are made with phthalates, which may have contaminated the samples. The SVOC chrysene was detected in soil at concentrations less than the residential PRG. Therefore, it appears that the detected concentrations are not significant to human health.

2.2.6 Groundwater and Surface Water

Groundwater monitoring and sampling has been conducted at the site since March 2004. Currently, monitoring wells MW-1, MW-2, and MW-5 through 8, and agricultural well AW-3 are being monitored and sampled on a quarterly basis. Nested monitor wells RMW-1, RMW-2 and RMW-3 are monitored for depth to water only on a quarterly basis. These nested wells are located in the Otay River Valley. Two more semi-annual (1st and 3rd quarters) sampling events are currently planned. The usefulness of continued semi-annual sampling will be re-assessed

after the next two events have been conducted (TRC, 2011b). TRC has recommended cessation of sampling in the past, but DTSC has indicated that because perchlorate exceeds the California MCL of 6 micrograms per liter (µg/L), monitoring should continue. DTSC however has further indicated that continued monitoring of certain monitoring wells at the Site is sufficient to address historic detections of perchlorate in groundwater (Table 3-1 in Appendix E) (DTSC, 2009a). No remedial effort is planned for groundwater.

Three grab surface water samples, River-1 through River-3, were collected from the Otay River during assessment activities in 2004. The samples were collected from the approximate east, middle, and west areas of the river transecting the Site. Surface water samples were analyzed for perchlorate, arsenic and lead. None of these analytes were reported above laboratory detection limits (TRC, 2004). No remedial effort is planned for surface water.

3.0 REMEDIAL ACTION OBJECTIVES

Site characterization has revealed the presence of PCOCs in soil and groundwater at the Site. RAOs have been developed based upon the current environmental conditions and the current and reasonably anticipated future uses of the site. Based on the RAOs, cleanup goals were developed that establish specific concentrations of chemicals in environmental media that are protective of both human health and the environment. In addition, a review of pertinent laws, regulations, and other criteria was performed to identify applicable or relevant and appropriate requirements (ARARs) and other criteria to be considered (TBC) for remediating the site. A summary of the potentially applicable ARARs and TBCs is presented in Tables 3-1 and 3-2 of Appendix F. A discussion of regulatory requirements, human health risks, and the remedial goals developed for the site is presented below.

3.1 SUMMARY OF RISK ASSESSMENT

3.1.1 Baseline Human Health Risk Assessment

The BHHRA evaluated the potential for human health impacts from PCOCs present at the Site due to past shooting range activities and perchlorate in groundwater. The results of the BHHRA provide a basis for decisions regarding the need for remediation at the Site. The BHHRA was conducted pursuant to an agency-approved workplan by AMEC Geomatrix, Inc. (AMEC) (2009). For PCOCs that contribute to an unacceptable health risk or hazard, a range of site-specific risk-based remediation goals (RBRGs) based on different land uses planned for the Site were presented to assist in the remedial planning process (AMEC, 2009).

At the Site, the most likely receptors for exposure to soil were assumed to be future recreational users, future industrial workers (outdoor worker), future construction / maintenance / recreational workers, and hypothetical future residents. The hypothetical future resident was included at the request of DTSC to assess unrestricted Site use. Potential exposure routes evaluated in the context of PCOCs in soil included incidental ingestion, dermal contact, inhalation of particulates in ambient air, and inhalation of volatile PAHs in ambient air.

The results of the BHHRA indicate that benzo(a)pyrene (and other carcinogenic PAHs) and lead detected in soil at the Site exceed target risk levels (i.e., theoretical excess lifetime cancer risk greater than $1x10^{-6}$ or blood-lead levels greater than 10 micrograms per deciliter [µg/dL]) under identified potential future land use scenarios. These chemicals are therefore the risk-driving PCOCs. To support the planning of remedial activities, RBRGs have been calculated for the risk-driving PCOCs that individually contributed greater than $1x10^{-6}$ to the total estimated cancer risk and a blood-lead level of 10 µg/dL (AMEC, 2009).

Arsenic was not considered a risk-driving PCOC in soil. When compared to benzo(a)pyrene, arsenic contributed less than 0.5 percent to the cumulative total risk. In addition, as discussed in section 2.1 above, arsenic in soil is likely within background levels (AMEC, 2009).

Perchlorate in groundwater was not considered a risk-driving PCOC. Groundwater monitoring well data indicate that the concentrations of perchlorate that are above the California public health goal of 6 µg/L were typically limited to monitoring wells MW-5 and MW-6 at the time the Final BHHRA was prepared. Because perchlorate in groundwater appears to be localized and associated with the Mission Valley Formation, and because shallow groundwater is currently not used as a drinking water source, perchlorate in groundwater was not considered a risk-driving PCOC. Arsenic was not considered a risk-driving PCOC in groundwater because arsenic in soil is present within ambient background levels (AMEC, 2009).

Consistent with the BHHRA, The following table presents scenario-specific RBRGs for benzo(a)pyrene and other carcinogenic PAHs in soil. These PAH RBRGs were calculated for target risks of $1x10^{-6}$ and a target hazard index of 1. Target RBRGs for lead were calculated using both the Lead Spread and Adult Lead Methodology (ALM) models. The models are designed to calculate remediation goals based on the blood-lead level of concern (10 µg/dL) for target populations. The following summarizes the RBRGs (95th percentile) of lead in soil for the protection of fetal blood-lead levels as predicted by the ALM model for the adult receptors at the site. Also presented are the target RBRGs (95th percentile) of lead in soil for the protection of the blood-lead levels as predicted by Lead Spread (AMEC, 2009).

	Relevant Exposure Scenario (mg/kg)							
	Recreational User			Worker		Resident		
Remediation Area / Use	Child	Youth	Adult	Outdoor	Construc -tion	Child / Adult	Adult	Child
Benzo(a)anthracene	1	0.9	0.9	3	13	0.38	NA	NA
Benzo(a)pyrene	0.1	0.09	0.09	0.3	1.3	0.04	NA	NA
Benzo(b)fluoranthene	1	0.9	0.9	2.9	12.7	0.37	NA	NA
Benzo(k)fluoranthene	1	0.9	0.9	3	13	0.38	NA	NA
Chrysene	10.2	9.3	9.3	29.5	126	3.7	NA	NA

Remediation Area / Use	Relevant Exposure Scenario (mg/kg)							
	Recreational User			Worker		Resident		
	Child	Youth	Adult	Outdoor	Construc -tion	Child / Adult	Adult	Child
Dibenz(a,h)anthracene	0.3	0.26	0.26	0.9	3.8	0.11	NA	NA
Indeno(1,2,3-cd)pyrene	1	0.9	0.9	3	13	0.38	NA	NA
Naphthalene	0.1	7.2	6.2	22.2	22.2	1.3	NA	NA
Lead (USEPA ALM[1])	NA	NA	860	1,050	160	NA	370	NA
Lead (DTSC LeadSpread[2])	150	770	2860	3530	560	NA	1320	130

Notes
NA = Not Applicable
1. USEPA Adult Lead Methodology Spreadsheet (AMEC, 2009); target soil concentration for the protection of a fetal blood-lead level of 10 mg/dl at the 95th percentile.
2. DTSC LeadSpread (Version 7); target soil concentration for the protection of the adult receptor's blood-lead level of 10 µg/dL at the 95th percentile.

The use of these RBRGs are discussed further in the context of the RAOs.

AMEC also concluded that the presence of lead pellets could serve as a continuing source of lead to soil and remedial measures should be considered to mitigate lead pellets in soil for the protection of human health (AMEC, 2009).

3.1.2 Ecological Risk Assessment

In 2010, TRC prepared an ecological Phase I Predictive Assessment for the Site in accordance with DTSC requirements (TRC, 2010a, 2010b and 2011a). This effort required the preparation of a Scoping Assessment and Phase I Predictive Assessment Workplan. The assessment was limited to the biologically sensitive areas designated MSCP 100% Preserve Area (Figure 1-7) (City of Chula Vista, 2003). According to DTSC, the Otay River Flood Plain is the only portion of the Site requiring an ecological risk assessment (2009a).

The Phase I Predictive Assessment evaluated the potential for adverse impacts to biological receptors from PCOCs present at the Site due to past shooting range activities. The PCOCs were initially screened based on a comparison to published ecological screening thresholds, a statistical comparison to background concentrations, the frequency of occurrence, and bioavailability. Ultimately, only lead was retained as a risk-driving ecological PCOC.

The primary and complete ecological exposure pathways for lead in soils within the MSCP Preserve Area are associated with direct contact of lead by terrestrial plants and invertebrates and ingestion of lead by higher trophic level receptors (herbivorous, insectivorous and carnivorous birds/mammals) through food

ingestion and incidental soil ingestion. Each of these complete pathways was evaluated within the Phase I Predictive Assessment. The estimated risk to these potential receptors was calculated using three data sets, which were all soil sampling data combined for the MSCP Preserve Area, random sampling data collected by TRC in 2011 specifically designed to collect unbiased representative soil data for the MSCP Preserve Area, and background soil data.

Using all the soil sample data from the MSCP Preserve Area, potential risks were identified for all of the receptors. However, this soil sampling data set was deemed biased upward for lead concentrations because only soil samples exhibiting elevated lead concentrations using a field screening method (x-ray fluorescence) were further analyzed using a laboratory method and included in the data set. Using this upwardly biased data set resulted in calculated, but inaccurate, risks to avian herbivores (represented by the mourning dove), and avian/mammalian insectivores/invertivores (represented by Bell's vireo and broad-footed mole, respectively). Estimated exposure doses received by these receptors indicate a high potential for adverse effects. In addition, plants and invertebrates were also estimated to be potentially at risk.

Risks were also evaluated using only the recent 2011 soil sampling data that represents random and non- biased data. Although a potential risk exists to avian herbivores and avian/mammalian insectivores/invertivores, the risks are similar to the risks attributed to background soil concentrations of lead.

Lead pellet-impacted soil and soil with lead concentrations of 150 mg/kg or greater in the Berm are proposed to be removed as part of the final remedy to ensure protection of human health. The removal of the impacted portions of the Berm will also reduce lead exposure and risk to ecological receptors inhabiting the MSCP Preserve Area. The preliminary ecological remediation goal for lead within the Berm area is to restore lead levels to background concentrations. If post-removal Berm soil concentrations of lead are still statistically elevated with respect to background concentrations, then additional remediation of the highest lead concentration(s) may be warranted followed by additional confirmation sampling and statistical analysis to ensure the remaining lead concentrations are consistent with background lead soil levels.

A comparison of background lead soil concentrations with the 10 non-Berm samples collected randomly within the target debris field/Otay floodplain in 2011 concluded that there is no statistical difference between the lead concentrations in these areas. Furthermore, vacuuming of target debris is also proposed as a remediation measure that will be implemented within a portion of the Otay River floodplain. It is anticipated that lead pellets present on the soil surface will also be removed by the vacuum which will further reduce risk to ecological receptors. Therefore, more intrusive remediation measures within the non-Berm portion of the MSCP Preserve Area do not appear warranted especially given that additional remediation measures could impact habitat for several endangered/threatened species.

The Phase I Predictive Assessment did not evaluate risk associated with the ingestion of lead pellets by ecological receptors. Birds that ingest soil grit to assist their gizzard in the assimilation of dietary items such as seeds, may also ingest lead pellets. The effects of lead shot ingestion to avian receptors vary with the bird species but may be severe and include mortality. Based on the analysis of sieved soil samples collected throughout the MSCP Preserve Area, lead pellets are present on the soil surface at the Berm and Target Debris field. Only a single pellet was noted in the Otay floodplain sieve samples. The presence of lead pellets at the surface of the soil within the Berm and target Debris Field presents a potential risk to birds that ingest grit. However, remediation of the Berm and the Target Debris Field using primarily high-vacuum suction and some limited excavation in the Berm are proposed as remediation measures within the MSCP Preserve Area. It is anticipated that lead pellets that are present on the soil surface will also be removed by these remedial measures which will greatly reduce the potential risk to ecological receptors from this exposure pathway.

3.2 IDENTIFICATION OF APPLICABLE REGULATORY STANDARDS AND REQUIREMENTS

This section provides a focused review of various regulatory standards that are considered potential drivers in selecting appropriate remedial alternatives for the Site (Table 2-1 in Appendix F). This focused review was performed in accordance with the NCP and consistent with USEPA guidance. Selected remedial actions must be protective of human health and the environment. The remedial actions must attain ARARs. ARARs are defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as standards, requirements, criteria, or limitations of federal environmental laws and any more stringent standards. The NCP, published in 40 CFR Part 300, requires identification of ARARs (40 CFR 300.400(g)) and requires compliance with ARARs during remedial actions to the extent practicable.

Applicable requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or circumstance at a Site. Relevant and appropriate requirements are those same standards mentioned above that, while not applicable at the Site, address problems or situation sufficiently similar to those encountered at the Site that their use is well suited to the particular Site. USEPA has divided ARARs into three categories to facilitate identification: chemical-specific, location-specific, and action specific.

ARARs are supplemented by TBC criteria that typically include policies and guidelines that have not been promulgated as regulatory standards. The NCP requires identifications of TBC criteria (40 CFR 300.400(g)). The complete list of ARARs and TBCs for the Site are summarized in Table 2-1 of Appendix F. Numeric values associated with the ARARs and TBCs for identified PCOCs are also summarized in Table 2-2 of Appendix F. These tables were produced for the Supplemental FS and update the ARAR tables in the RI/FS (TRC, 2005d and 2009b).

The ARARs that were considered in the Supplemental FS were identified based on the identified PCOCs, distribution of the PCOCs relative to predicted future land use, and the potential response actions that may be allowed by regulation.

In addition, the DTSC required the following as a condition of its approval of the Supplemental FS:

- The white material must be excavated and removed from the site for appropriate off-site disposal (DTSC, 2009a);
- Confirmation soil sampling must be conducted beneath the wood debris pile (DTSC, 2007); and
- Continued monitoring of existing wells for perchlorate (DTSC, 2009a).

3.3 DEVELOPMENT OF REMEDIAL ACTION OBJECTIVES

RAOs are specific goals for protecting human health and the environment. RAOs have been developed by evaluating ARARs that are protective of human health and the environment, and by evaluating the results of the RI/FS and Supplemental FS, including the BHHRA and the ecological Phase I Predictive Assessment.

3.3.1 Soil Remedial Action Objectives

Based on the future land use assumptions and the identified ARARs, the primary RAOs for this Site are to:

- Limit the exposure of potential human and ecological receptors to lead, PAHs and perchlorate in surface soils at the Site and former shooting range;
- Limit future potential lead, PAH and perchlorate impacts to groundwater from existing soil concentrations in order to protect the beneficial uses of area groundwater; and
- Remove the wood debris and soil containing the White Material in accordance with applicable requirements.

3.3.2 Groundwater Remedial Action Objectives

Based on the assessment data collected to date, groundwater RAOs do not appear necessary because remediation is not necessary. This conclusion is based on the following:

- Lead concentrations in groundwater are below the USEPA action level;
- PAHs were not detected in groundwater;
- Perchlorate concentrations in groundwater are stable or reducing, may be from a natural source, and the suspected source, the White Material, will be removed;
- Soil remediation RAOs and Cleanup Goals will be protective of groundwater as indicated by the leachability testing of the clay target debris and the column studies (TRC, 2005b); and

- The DTSC accepts continued monitoring of existing monitoring wells at the Site to be a sufficient solution to address perchlorate in groundwater (DTSC, 2009a).

3.3.3 Cleanup Goals to Achieve Remedial Action Objectives

In order to facilitate final remedial action, the presence of lead pellets as well as laboratory analysis of soil for lead will be used as an indicator for the presence of elevated lead concentrations; benzo(a)pyrene will be used as the indicator constituent for the presence of all other PAHs based on the results of previous sampling; wood debris from the Wood Debris Area will be removed based on visual observation; and, the White Material will be removed based on visual observation.

The RBRGs to be used for a specific area of the Site will be based on the most conservative exposure scenario for a particular land use. This project assumes the following regarding potential exposure scenarios for the three types of land use (Figure 1-7):

- Active recreation – A portion of RA1 is within this area. Development and use of recreational facilities is anticipated. Construction Workers, Outdoor Workers and Recreational Users are assumed to be potentially present;

- Mixed Use Commercial – A portion of RA1 is within this area. Development and use of commercial facilities is anticipated. Construction Workers and Outdoor Workers are assumed to be potentially present; and

- MSCP 100% Preserve Area:

    - RA2 is within this area.
        - For the non-Berm area, a performance goal of vacuum removal of target debris containing PAHs and lead pellets is proposed. However no numerical PAH or lead cleanup goal is proposed based on the ecological risk assessment. PAHs were not found to be an ecological PCOC and lead concentrations in the non-Berm area are statistically no different than background lead concentrations (TRC, 2011a).
        - For the Berm, ecological receptors are assumed to be at potential risk. Based on the ecological risk assessment, the preliminary ecological remediation goal for lead within the RA2 portion of the Berm is to restore lead levels to background concentrations. Also, although no development will occur in this area, it may not be unusual for active recreation users to hike in this area given its proximity to an Active Recreation area. Therefore, the exposure scenarios of youth and adult recreational users may also be considered appropriate for the Berm area of RA2

    - RA3 is generally within this area. However, the wood debris will be removed and confirmation soil samples will be collected in accordance with DTSC's request in its February 16, 2007 letter, Item 7. Decisions regarding the need for remediation of soil beneath the Wood Debris Pile will be based on this additional analysis and possible future use [e.g., future roadway configuration and construction] of this area of the Site.

The following table presents the relevant exposure scenarios for each remediation area and land use combination.

Remediation Area / Use	Relevant Exposure Scenarios								
	Recreational User			Worker		Resident			Eco-logical
	Child	Youth	Adult	Outdoor	Construc-tion	Child / Adult	Adult	Child	
RA1, Mixed Use Commercial				X	X				
RA1, Active Recreation	X	X	X	X	X				
RA2 non-Berm area, MSCP Preserve									NA
RA2 Berm, MSCP Preserve			X						X
RA3				X	X				

Note: NA = not applicable. NA because PAHs were not found to be an ecological PCOC and lead concentrations in the non-Berm area are statistically no different than background lead concentrations.

To achieve the RAOs for this Site, the following mostly numerical RBRGs will be used as cleanup goals based on the most conservative exposure scenario for each remediation area and land use combination:

Risk Driving PCOC	Most Conservative RBRGs (mg/kg) for each Remediation Area and Land Use Combination				
	RA1 Mixed Use Commercial	RA1 Active Recreation	RA2 Berm Area	RA2 non-Berm Area	RA3
Benzo(a)anthracene	3	0.9	0.9	Remove[2] Debris	3
Benzo(a)pyrene	0.3	0.09	0.09	Remove Debris	0.3
Benzo(b)fluoranthene	2.9	0.9	0.9	Remove Debris	2.9
Benzo(k)fluoranthene	3	0.9	0.9	Remove Debris	3
Chrysene	29.5	9.3	9.3	Remove Debris	29.5

Risk Driving PCOC	Most Conservative RBRGs (mg/kg) for each Remediation Area and Land Use Combination				
	RA1 Mixed Use Commercial	RA1 Active Recreation	RA2 Berm Area	RA2 non-Berm Area	RA3
Dibenz(a,h)anthracene	0.9	0.26	0.26	Remove Debris	0.9
Indeno(1,2,3-cd)pyrene	3	0.9	0.9	Remove Debris	3
Naphthalene	22.2	0.1	0.1	Remove Debris	22.2
Lead	160	150	Background[1]	Remove Debris	160

Note:

[1] Background will be based on statistical analysis of lead concentrations in confirmation soil samples relative to background concentrations. The statistical methods to be used and the background data set will be the same as those used in the ecological Phase 1 Predictive Assessment (TRC, 2011a). The statistical methods will be presented in the Remediation Design and Implementation Plan (RDIP) to be prepared.

[2] Removal of target debris and lead pellets using high-vacuum suction equipment.

3.4 AREAS EXCEEDING CLEANUP GOALS

Soil remedial measures will generally be required to depths ranging from approximately ground surface to 3 fbg to meet the soil RBRGs. In RA1 the areal extent of soil with PCOCs exceeding the soil RBRGs is approximately 31.3 acres (Figures 1-2 and 1-3). In RA2 the areal extent of soil with PCOCs exceeding the soil RBRGs and requiring removal of debris is approximately 4.9 acres (Figure 1-2 and 1-4). There are also seven stockpiles to be remediated, which are Stockpiles SP-9, SP-10, SP-11, SP-12, SP-13, and the Target Debris Pile. In total, there is estimated to be approximately 65,000 cubic yards (CY) of soil to be remediated between RA1, RA2 and the stockpiles. The actual volume of impacted soil will depend on the distribution of impact in soil based on existing chemical data, confirmation sample laboratory analytical results, and limitations of the remedial measures implemented.

There is estimated to be approximately 4,500 CY of White Material and 6,600 cubic yards of Wood Debris that will be excavated and removed from the Site.

4.0 SUMMARY OF FEASIBILITY STUDY

The Supplemental FS was submitted to DEH and DTSC on December 11, 2009. The report discussed applicable remedial technologies for the impacted soils at the Site followed by an

evaluation of remedial alternatives in accordance with the NCP and guidance from the USEPA and DTSC, including the following:

- Code of Federal Regulations 40 CFR 300.430, Remedial Investigation / Feasibility Study and Selection of Remedy;
- USEPA Guidance for Conducting Remedial Investigations and Feasibility Studies Under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (USEPA, 1988); and
- DTSC proven technologies and remedies for metals in soil (DTSC, 2008c).

The primary objective of the FS is to identify and develop an appropriate range of remediation alternatives that may be analyzed more fully in the detailed analysis phase of the FS. The remediation alternatives must be protective of human health and the environment. In the case of the Wood Debris Pile and White Material, the alternatives must also be consistent with the prior County Official Notice and Administrative Order to remove the wood pile, and likewise consistent with the DTSC condition that the White Material be removed from the Site. The no action alternative was evaluated as a baseline in compliance with the NCP.

4.1 TECHNOLOGY SCREENING

As part of the Supplemental FS, thirteen general response actions were screened for the shooting range (RA1 and RA2) and three general response actions were screened for the Wood Debris Pile in the FS (TRC, 2009b). The general response actions were screened for effectiveness, impenetrability and cost. Those response actions that had poor implementability, effectiveness, cost, or a combination thereof were not retained for further evaluation. Tables 4-1 through 4-4 in Appendix F present the lists of general response actions reviewed and how they were rated for the shooting range and the Wood Debris Pile.

4.2 IDENTIFICATION OF ALTERNATIVES FOR RA1 AND RA2

Four general response actions were retained for the shooting range remediation areas RA1 and RA2 from the screening evaluation. The four alternatives for the Shooting Range are as following:

4.2.1 Alternative 1 - Containment Using Consolidation and Capping

This alternative would consist of either an Engineered Unit using the AOC approach or a Corrective Action Management Unit (CAMU). The containment by consolidating and capping general response action would consist of excavating some areas of the Site and consolidating the material in another area of the Site and capping the material. USEPA guidance regarding the use of the AOC approach during cleanups refers to this as an engineered unit within the AOC

(AOC Engineered Unit) (USEPA, 1996). This action is only for soil consolidated and capped within the AOC. If soil is consolidated and capped outside of the AOC, it may constitute "placement" under the NCP and could result in RCRA land disposal restrictions (LDRs), unless it was placed in a CAMU. A permanent AOC Engineered Unit involving long-term consolidation of remediation waste would require design and construction of a protective and reliable unit, presenting no significant risk to human health or the environment, and would require institutional controls, including a deed restriction, site security, groundwater monitoring, and on-going maintenance and monitoring of the cap. The AOC Engineered Unit would be protected from accidental or deliberate intrusion by the public. This could be accomplished by fencing or by developing the surface of the AOC Engineered Unit as a parking lot, for example. There is no current provision for mandatory treatment of hazardous substances prior to consolidation, there is no requirement for a liner and leachate collection system, and there are no formal permitting requirements. However, the DTSC recommends regulatory oversight to facilitate the proper application of the AOC approach (DTSC, 2008b).

CAMUs are defined under Title 22 CCR, Section 66264.552. CAMUs must be formally designated by DTSC (2008b). CAMUs provide similar features to those of the AOC approach with the added flexibility of consolidating the material in an uncontaminated area of the Site. At a minimum, this remediation alternative would consist of soil excavation, consolidation, and capping. It could also potentially include treatment of soil prior to consolidation in the CAMU. CAMUs also include a composite liner and leachate collection system, unless it can be shown that location characteristics will prevent the migration of any hazardous constituents into the groundwater or surface water at least as effectively as the liner and leachate collection system (Title 22 CCR, Section 66264.552(e)(3)(B)). A CAMU would not necessarily trigger LDRs and minimum technology requirements (MTRs) (DTSC, 2008b; and USEPA, 1989, 1996, and 1998). Like the AOC Engineered Unit in General Response Action 5, a permanent CAMU involving long-term placement of remediation waste would require design and construction of a protective and reliable unit, presenting no significant risk to human health or the environment, and would require institutional controls, including a deed restriction, Site security, groundwater monitoring, and on-going maintenance and monitoring of the cap and leachate collection system. The CAMU would have to be protected from accidental or deliberate intrusion by the public. This could be accomplished by fencing or by developing the surface of the CAMU as a parking lot, for example. The need for soil treatment prior to placement into the CAMU is subject to regulatory review and approval. In particular, the DTSC must specify in a CAMU permit or order if it believes the impacted soil contains principal hazardous constituents (PHCs) that require treatment (Title 22, 66264.552(e)(4)).

The CAMU approach is similar to the AOC Engineered Unit approach, with the following differences:

- Can be located outside of the AOC, but within the contiguous property;
- Must be formally designated by DTSC;
- Has prescriptive requirements for construction, including liner, leachate collection system, and cap; and

- Has minimum treatment requirements if the DTSC determines that the material to be contained has principal hazardous constituents.

4.2.2 Alternative 2 - Offsite Disposal

Under Alternative 2, impacted soil would be excavated, stockpiled, characterized to assess its waste classification, loaded and transported to one or more off Site landfills. Based on the waste classification, the impacted soil would be transported to various facilities, including those that accept non-hazardous waste, non-RCRA waste, and/or RCRA waste. Approximately 3,250 to 3,820 truckloads of impacted soil would be transported offsite, impacting traffic patterns in the surrounding community (TRC, 2009b).

The receiving facility would have to treat RCRA waste to achieve a non-RCRA waste classification. Past Site specific treatability testing has shown that treatment by ex situ stabilization is feasible. The advantage of the receiving facility conducting the soil treatment is there would be no increase in soil volume prior to transport to the landfill, which would yield cost savings. Also, the landfill would be responsible for achieving the non-RCRA classification.

It is not known what volume of soil would require treatment to achieve non-RCRA classification. However, based on the stockpile soil sampling and TCLP analysis conducted on soil samples from for the visibly impacted stockpile, SP-12, it is reasonable to assume that the top 6-inches of soil in areas where impacted soil was found to extend to only 6-inches below grade and the top 1 foot of soil in areas where impact was found deeper than 6-inches below grade, is a minimum volume of soil that should be assumed to be a RCRA waste for estimation purposes. For the purposes of the FS, the maximum volume of soil assumed to be a RCRA waste was the entire volume of soil assumed to be impacted by shooting range operations. Based on these assumptions, approximately 42,250 to 65,000 cubic yards of soil would require treatment to achieve a non-RCRA waste classification.

4.2.3 Alternative 3 - Soil Treatment Using Onsite Stabilization Combined with Offsite Disposal

Alternative 3, Stabilization, also referred to as solidification and fixation, is the encapsulation or physical adhesion of waste by a reagent material. Stabilization converts the lead into a less soluble form, and therefore, a less mobile form. Stabilization is not needed for the PAHs, which are already in an insoluble form. Reagents include conventional cement-based process in which soil is mixed with Portland cement as well as reagents consisting of phosphate, sulfate, carbonates and other compounds. Prior to offsite disposal, the soil must be treated to non-RCRA levels. Site specific treatability testing has been conducted and the results were favorable for reducing soluble lead concentrations to below RCRA levels (TRC, 2009b).

Alternative 3 includes all the same aspects as Alternative 2, except impacted soil classified as RCRA waste would be treated onsite using stabilization to achieve a non-RCRA waste classification. Also like Alternative 2, it is assumed approximately 42,250 to 65,000 cubic yards of soil would require treatment to achieve a non-RCRA waste classification. The treatment

process would increase the treated soil volume as a result of adding the stabilization reagent. For the purposes of the FS, it was assumed the volume would increase by 10 percent. This is a disadvantage of this remediation approach.

Approximately 3,460 to 4,210 truckloads of impacted soil would be transported offsite.

4.2.4 Alternative 4 - Physical Separation Using Lead Pellet Removal by Wet Screening and Gravity Separation Combined with Disposal

Alternative 4, wet screening and gravity separation, utilizes a technique for removing lead pellets and possibly target debris from soil. Impacted soil is grossly sieved to separate into various size fractions and to eliminate larger debris. The fractions that could potentially contain lead pellets are further sieved as a wet slurry into smaller fractions. Fractions that could potentially contain lead pellets are then subjected to a mining-based density separation process at which time the lead pellets are recovered. Process water is recycled throughout the process. Recovered lead pellets could be recycled.

Once treated, the soil would be segregated based on its waste classification, and retained onsite as non-hazardous if it meets non-hazardous waste classification criteria and the RAOs, disposed offsite at a local landfill as non-hazardous if it meets non-hazardous waste classification criteria but not the RAOs, or disposed offsite at a Class I landfill if it is a hazardous waste. Recovered lead pellets would be recycled.

Alternative 4 includes all the same aspects as Alternative 3, except the treatment process is wet screening and gravity separation to remove lead pellets, and after treatment, some soil would be retained onsite. It is assumed all 65,000 cubic yards of soil would be treated instead of a subset of the impacted soil volume.

The treatment process for Alternative 4 would be significantly more complex than for Alternative 3. Additionally, the technical feasibility of removing lead pellets from Site soils, which is the treatment goal of Alternative 4, would be significantly more difficult than the stabilization of Site soils to non-RCRA levels, which is the treatment goal of Alternative 3.

During the initial Site assessment activities conducted by TRC in 2004 and 2005, over 2,000 soil samples were sieved to remove lead pellets prior to laboratory analysis (TRC, 2004 and 2005b). Therefore, there is a large data set indicating how soil would be classified once the pellets have been removed. Using this data set, the following is an estimation of what the volumes and waste classifications would be after soil treatment:

Waste Classification	Volume (cubic yards)	Disposition Post Treatment
Non-Hazardous, meets RAOs	28,300	Retained onsite

Waste Classification	Volume (cubic yards)	Disposition Post Treatment
Non-Hazardous, does not meet RAOs	5,900	Disposed offsite
Non-RCRA	28,400	Disposed offsite
RCRA	2,400	Disposed offsite
Total:	65,000	

Based on these data, approximately 1,840 to 2,160 truckloads of impacted soil would be transported offsite.

4.3 EVALUATION OF ALTERNATIVES AND JUSTIFICATION FOR SELECTED REMEDY FOR RA1 AND RA2

The four general response actions retained from the screening evaluation were evaluated further in the detailed analysis to assess feasibility. To evaluate feasibility, the following nine criteria were considered (in order of decreasing importance) as defined by the NCP.

In the Supplemental Feasibility Study Addendum (FS Addendum), a comparative analysis was done for the retained alternatives and is presented in this RAP (TRC, 2011c). Table 4-1 presents the detailed comparison of the alternatives and a numerical scoring system to assist in determining the most appropriate remediation alternative based on the nine criteria set forth below. The scoring assumes that each of the nine criteria is worth 4 points, for a maximum point total of 36 points. Some criteria are broken down into subcategories. For example, Criteria 4, Reduction of Toxicity, Mobility, and Volume through Treatment, is broken down into subcategories Toxicity, Mobility and Volume with each subcategory worth 1.33 points (4 possible points divided by 3 subcategories).

1. ***Overall Protection of Human Health and the Environment***: The NCP states that this criterion shall take into consideration protection of human health and the environment, in both the short- and long-term, from unacceptable risks, and compliance with ARARs. Therefore, the scores in this category are linked to other criteria.

   All of the alternatives meet this criterion by minimizing or eliminating the risks from direct contact with soils and by minimizing or eliminating the source of groundwater contamination. However, Alternatives 2 and 3 ranked the highest for long-term performance and Alternative 1 ranked the highest for short-term performance. All the alternatives ranked the same for compliance with ARARs. See the following criteria evaluation below for specific discussions regarding performance and ARAR compliance (Table 4-1).

2. ***Compliance with ARARs***: The NCP states that this criterion shall take into consideration attainment of ARARs.

Each of the alternatives meet this criterion and were evenly scored. Note that chemical specific ARARs regarding LDRs are not applicable to either an AOC Engineered Unit or CAMU (Table 4-1).

3. ***Long-term effectiveness and Performance***: The NCP states that this criterion shall take into consideration the long-term effectiveness of the alternative in maintaining protection of human health and the environment after response objectives have been met.

   Alternatives 2 and 3 score the highest for this criterion because there will be no significant residual risk because the impacted soil will be removed from the Site, and there will be no requirement for containment systems or institutional controls. In the case of Alternative 1, there will remain low residual risk as a result of untreated soil placed in a Unit on-Site. Therefore, Alternative 1 is ranked lower than Alternatives 2 and 3. However, the impacted soil will be capped and the cap will be maintained resulting in a higher score when compared to Alternative 4, which will leave treated soil on-Site without capping.

4. ***Reduction of Toxicity, Mobility, and Volume Through Treatment***: The NCP states that this criterion shall take into consideration the anticipated performance of the alternatives treatment technologies.

   This criterion was broken down into three sub criterions: toxicity, mobility and volume. For toxicity and mobility, Alternative 4 scored the highest due to the removal of lead pellets and possibly target debris. The remaining alternatives scored incrementally lower based on specific alternative circumstances (Table 4-1). For volume, Alternative 4 scored the highest because lead pellets would be removed from the soil.

5. ***Short-term Effectiveness***: The NCP states that this criterion should take into consideration risk to public health and safety, the environment, and workers during implementation of the alternative.

   This criterion was broken down into three sub criterions, potential risk to the community, workers and the environment. Alternative 1 scored the highest for potential risk to the community because this alternative requires the least amount of transport of impacted soil through the community.

   Alternative 1 also scored the highest for potential risk to workers and the environment. During remediation, workers will be required to take standard safety precautions while working with heavy equipment and other field machinery for all the alternatives. However, Alternatives 2 through 4 will also require additional precautions, including the movement of large quantities of trucks into and out of the Site, working with on-Site treatment equipment, working with stabilizing agents and/or handling treatment system generated waste water.

6. ***Implementability***: The NCP states that this criterion should take into consideration the ease or difficulty of implementing the alternative, including technical and administrative feasibility, and availability of services.

   Alternative 1 scored the highest on implementability because standard construction equipment will be used for the majority of the project, and standard shooting range high-

vacuum equipment will be used in RA2. The other alternatives scored lower for various reasons, including the effort to remove all the impacted soil from the Site, the selection of effective stabilizing agents, the mobilization of treatment equipment, and/or the limited commercial availability of the technology. There is also significant uncertainty whether Alternative 4 would be successful at removing lead pellets given the clayey nature of the Site soils.

7. ***Cost***: The NCP states that this criterion should take into consideration the capital costs, annual operation and maintenance (O&M) costs, and net present value (NPV) of capital and O&M costs.

   Alternative 1 scored the highest on cost since it is the least expensive alternative. Tables 5-1 and 5-2 in Appendix F present the remediation volumes and subsequent costs associated with each alternative, respectively.

8. ***Agency Acceptance***: The NCP states that this criterion may not be completed until comments on the eventual plan are received.

   Based on DTSC guidance, Alternatives 1 and 2 are considered proven technologies and appropriate for remediation of metal-impacted soil if it can be demonstrated that the alternative is protective of human health and the environment; able to achieve the cleanup objectives and goals; and able to control or remediate sources of the release, all of which have been demonstrated in the 2005 RI/FS, the 2009 Supplemental FS and the 2011 Supplemental FS Addendum (TRC, 2005d, 2009b and 2011c). Because Alternative 2 is more expensive than Alternative 1, it is presumed to have less agency acceptance than Alternative 1. For Alternative 3, agency acceptance is plausible, but perhaps less certain than Alternatives 1 and 2, which are presented in DTSC guidance as proven technologies for remediation of metals in soil (DTSC, 2008b).

   Alternative 4 has the greatest amount of uncertainty regarding implementability; therefore it is considered to have the least amount of agency acceptance.

9. ***Community Acceptance***: The NCP states that this criterion includes determining which components of the alternatives interested persons in the community support, have reservations about, or oppose. The NCP further states that this criterion may not be completed until public comment on the eventual plan are received.

   The Supplemental FS and Supplemental FS Addendum include discussion of potential community acceptance. However, the community acceptance of any of the alternatives is currently not known. Public review and comment will occur in the future, consistent with the Health and Safety Code, the NCP, and DTSC and DEH guidance. For this reason, all the retained alternatives were given a zero score for this criterion.

In summary, Alternative 1 scored higher than Alternatives 2 through 4. On-Site consolidation and capping offers the best combination of removal and effective containment for the protection of human health and the environment, and provides a preferred level of cost and certainty compared to the other alternatives. Alternative 1 has two sub-alternatives, a) an Engineered

Unit using the AOC approach, and b) a CAMU. The AOC Engineered Unit is preferred over the CAMU for the following reasons:

- The southern portion of the AOC is approximately 60 to 70 feet above groundwater, allowing for the consolidation of impacted soil approximately 5 fbg and 40 feet above groundwater. There is also sufficient room within the southern portion of the AOC to place an Engineered Unit. Therefore, the CAMU approach is unnecessary (a CAMU is required for example if the impacted soil is consolidated outside of the AOC);
- There is no specific regulatory authority under which the Site is being remediated that requires the use of a CAMU; and
- The CRWQCB has found that there are no foreseeable issues with the use of the AOC Engineered Unit as summarized by the DEH to the CRWQCB based on the Supplemental FS (DEH, 2010).

4.4 IDENTIFICATION OF ALTERNATIVES FOR THE WOOD DEBRIS PILE

Two general response actions were retained for the Wood Debris Pile from the screening evaluation. The two alternatives are the following (Table 4-2):

4.4.1 Wood Debris Pile Alternative 1 - Excavation and Offsite Disposal

Wood debris would be excavated, loaded and transported to an offsite landfill. Because the wood debris contains creosote treated wood and some of it exhibits the characteristic of toxicity under Title 22 CCR Section 66261.24, the wood will require disposal at a landfill capable of accepting such waste.

4.4.2 Wood Debris Pile Alternative 2 - Excavation, Coarse Separation, and Offsite Disposal

Wood debris would be excavated, and separated into creosote-treated wood and untreated wood (no creosote). This is considered coarse separation because the creosote-treated material generally consists of large utility poles and railroad ties, which are easy to identify. The untreated wood could be ground into chips (chipped) and taken to a domestic landfill for daily surface cover. Again, because the creosote-treated wood exhibits the characteristic of toxicity under the Title 22 CCR Section 66261.24, at least some of the wood will require disposal at a landfill capable of accepting such waste.

4.5 EVALUATION OF ALTERNATIVES AND JUSTIFICATION FOR SELECTED REMEDY FOR THE WOOD DEBRIS PILE

The two general response actions retained from the screening evaluation were evaluated further in the detailed analysis to assess alternative feasibility. A comparative analysis was done for the retained alternatives and is presented in this RAP. Table 4-2 presents the comparison of the alternatives and a numerical scoring system to determine the most appropriate remediation alternative based on the nine criteria presented below.

1. ***Overall Protection of Human Health and the Environment***: The NCP states that this criterion shall take into consideration protection of human health and the environment, in both the short- and long-term, from unacceptable risks.

   Both alternatives are considered to be effective at reducing the potential for human exposure and ecological exposure to the wood debris, and thus is considered protective of human health and the environment. Wood debris would not be available for direct contact to humans or wildlife. Since PCOCs within the wood debris would have been removed, groundwater would be protected.

2. ***Compliance with ARARs***: The NCP states that this criterion shall take into consideration attainment of ARARs.

   Each of the alternatives meet this criterion and were evenly scored.

3. ***Long-term effectiveness and Performance***: The NCP states that this criterion shall take into consideration the long-term effectiveness of the alternative in maintaining protection of human health and the environment after response objectives have been met.

   Both alternatives are considered to be effective at maintaining the protection of human health and the environment after response objectives have been met. The wood debris would no longer be onsite; therefore, there would be no direct contact to humans and wildlife, and groundwater would be protected from removal of the PCOCs that may exist within the wood debris.

   For both alternatives, off-site effectiveness is dependent on disposal facility management practices.

4. ***Reduction of Toxicity, Mobility, and Volume Through Treatment***: The NCP states that this criterion shall take into consideration the anticipated performance of the alternative treatment technologies.

   For both alternatives, there would be a reduction in the toxicity, mobility and volume of the PCOCs at the Site. However, PCOCs would remain at the selected disposal facility into the foreseeable future. The PCOCs will not be destroyed and their toxicity may not be reduced significantly at the disposal facility. The selected landfill would, however, have in place engineering and related controls to address this risk. Alternative 2 scored higher because there would be some reduction in volume of wood material since coarse separation will occur.

5. ***Short-term Effectiveness***: The NCP states that this criterion should take into consideration risk to public health and safety, the environment, and workers during implementation of the alternative.

   For Alternative 1, fugitive dust generation would be likely. Dust control measures would be implemented to protect public and worker health and safety. Workers would likely directly contact treated wood during remediation activities. Workers likely to come into contact with treated wood would be trained in 29 CFR 1910.120 Hazardous Waste Operations and

Emergency Response. In addition, workers would use personal protective equipment. Strict adherence to worker and community health and safety protocols would be required.

As many as 450 truckloads of wood would be transported offsite, which would potentially create adverse traffic and air pollution conditions.

Alternative 2 is similar to Alternative 1, except there would be more worker contact with treated wood due to onsite coarse separation activities. However, due to the potential that the bulk of the wood could be taken to a local landfill, there would be an overall decrease in traffic and potential air issues.

6. ***Implementability***: The NCP states that this criterion should take into consideration the ease or difficulty of implementing the alternative, including technical and administrative feasibility, and availability of services.

   For Alternative 1, excavation, offsite transport and disposal are all technically feasible. Traffic control to facilitate the movement of trucks onto and off of the Site is anticipated to be straight forward. Because the Wood Debris Pile is located in the corner of the parcel at an intersection which provides access to the nearby quarry, access for soil loading will be challenging, but feasible.

   The required services to implement this alternative would include traffic control design and implementation, coordination with the nearby quarry, excavation and potentially grading type services, certified hazardous waste haulers, and landfill availability. All services would be reasonably available.

   Alternative 2 is similar to Alternative 1, except for the additional effort to conduct coarse separation of treated wood and the additional waste profiling. There is some uncertainty regarding the actual volume of treated wood.

7. ***Cost***: The NCP states that this criterion should take into consideration the capital costs, annual operation and maintenance (O&M) costs, and net present value (NPV) of capital and O&M costs.

   Alternative 2 scored the highest on cost since it is the least expensive alternative. Table 5-3 in Appendix F presents the remediation volumes and subsequent costs associated with each alternative, respectively.

8. ***Agency Acceptance***: The NCP states that this criterion may not be completed until comments on the eventual plan are received.

   For both alternatives, it is assumed the DEH and other agencies will favor compliance with the DEH Official Notice dated March 24, 1998 and Administrative Order dated May 14, 1998, once such compliance has occurred.

9. ***Community Acceptance***: The NCP states that this criterion includes determining which components of the alternatives interested persons in the community support, have

reservations about, or oppose. The NCP further states that this criterion may not be completed until public comments on the eventual plan are received.

At this time, the community acceptance of any of the alternatives is unknown. Public review and comment will happen in the future. For this reason, all the retained alternatives will be given a 0 score for this criteria.

In summary, Alternative 2 scored higher than Alternative 1. Therefore, Alternative 2, Excavation, Coarse Separation, and Offsite Disposal, offers the best combination of achieving the removal of the pile while allowing for some re-use of the wood.

4.5 AGENCY ACCEPTANCE OF FEASIBILITY STUDY

The DEH and DTSC have concurred that the Supplemental FS and Supplemental FS Addendum have presented an appropriate evaluation of the remedial alternatives consistent with the NCP. The DEH also concurs with DTSC's comments regarding the collection and/or presentation of additional information regarding soil stratigraphy beneath the proposed AOC Engineered Unit, operation and maintenance of the planned AOC Engineered Unit and future site use immediately above the proposed AOC Engineered Unit (DEH, 2011; and DTSC, 2011). This additional information will be collected and presented to DEH in a Remedial Design and Implementation Plan (RDIP) to be prepared and submitted to DEH for approval prior to the start of remediation field activities. The RDIP is discussed below.

5.0 PRELIMINARY INFORMATION REGARDING REMEDIAL DESIGN AND IMPLEMENTATION PLAN OF CONSOLIDATION AND CAPPING REMEDY USING AOC ENGINEERED UNIT APPROACH

This section presents preliminary information regarding details that will be provided in the RDIP. The RDIP will present the engineered design for the AOC Engineered Unit and other tasks and plans that will be required to conduct the eventual DEH-approved, final remedial action. The objective of the engineered design will be to prevent human and wildlife contact with impacted soil (including lead pellets and target debris) that exceeds cleanup goals; to isolate the impacted soil from wind and surface water dispersion; and to protect groundwater from potential leachate migration through the impacted soil. The design will be based on Site-specific characteristics, including PCOC characteristics, soil types and climate conditions. At a minimum, the AOC Engineered Unit will have a cap designed to isolate the impacted soil and to prevent surface water from infiltrating into the impacted soil. Based on the Site specific characteristics, the engineered design may also include side and/or bottom liners, possibly in conjunction with a leachate collection system.

The following sections discuss preliminary assumptions and listings of the major tasks that will be included in the RDIP. These sections are provided for background and context, and are not required elements of the Draft RAP.

5.1 PERMITTING

It is expected that the following permits may be required for excavation, consolidation and capping of the impacted soil:

- A grading permit from the City of Chula Vista. Consistent with the City's comment as part of the Site Designation Committee review of the Draft RAP, as reflected in DEH's January 17, 2012 letter, Flat Rock understands that the City will require field verification of the soil qualities projected for the bottom and sides of the AOC Engineered Unit. Flat Rock will abide by that request. A Registered Geotechnical Engineer or Certified Engineering Geologist, or an engineer or geologist under their supervision, will field verify that the soil qualities projected for the bottom and sides of the AOC Engineered Unit are of a low permeability as characterized by the RDIP. The City request was specific to the soil qualities as specified in this RAP. However, additional soil borings are proposed to be conducted to complete the final design of the AOC Engineered Unit. Therefore, the field verification will be specific to the soil qualities as specified in the to-be-prepared RDIP, which will incorporate the additional soil physical parameter assessment activities to be conducted;

- A Habitat Loss and Incidental Take (HLIT) permit from the City of Chula Vista. This permit is required because remediation activities within RA2 are located in a MSCP Preserve Area;

- A well abandonment permit will be obtained from the DEH for groundwater monitor wells MW-1, MW-2, and MW-5 through MW-8. Groundwater monitor wells MW-1 and MW-5 through MW-8 are within the area to be remediated and must be removed prior to the start of excavation activities. Groundwater monitor well MW-2 is no longer needed;

- Flat Rock may be required to obtain a USEPA Identification number as the generator of waste for the White Material, and from the Wood Debris Pile; and

- A stormwater pollution prevention plan (SWPPP) will be prepared in accordance with the State Water Resources Control Board Water Quality Order 2009-0009-DWQ for National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000002 (Waste Discharge Requirements for Discharges of Storm Water Associated with Construction Activity). A minor Stormwater Management Plan (SWMP) has already been submitted to the County of San Diego, Department of Planning and Land Use (DPLU) as part of the Application for an Environmental Initial Study Land Use (AEIS).

5.2 UTILITY CLEARANCE AND EXCAVATION IN VICINITY OF SEWER LINE

Prior to commencing with excavation and overall remedial activities, Underground Service Alert (USA) will be contacted at least 48 hours in advance to identify the location of utilities that enter the property. All proposed excavation areas will be clearly marked with white paint or surveyors flagging as required by USA. USA will contact all utility owners of record within the Site vicinity and notify them of the intent to excavate. All utility owners of record will be expected to clearly mark the position of their utilities on the ground surface throughout the designated area.

The owner of the Sewer line located south of the Berm will be contacted and activities will be coordinated concerning the planned excavation activities over the Sewer line. It is anticipated that excavation of impacted soil over the Sewer line will be limited to a maximum depth of 3 fbg.[1] Further excavation of the Sewer line backfill is not proposed because removal of deeper backfill could damage the Sewer line. Therefore, some impacted soil may remain in the Sewer line backfill after remedial activities are completed (Figure 1-3). After the removal of impacted soil from RA1, the excavated areas will be backfilled to match current existing grade using clean soil generated from creating the AOC Engineered Unit. Therefore, any remaining impacted soil in the Sewer line backfill will be capped in situ with approximately 3 feet of clean-soil.

5.3 SITE PREPARATION

The RDIP will discuss site preparation activities, such as clearing and grubbing, access control, installation of storm water best management practices (BMPs), and set up of decontamination areas. At this time, it is anticipated that conventional construction equipment, such as an excavator, front-end loader equipped with a backhoe, and grader will be used to prepare the Site for implementation of the final remedy.

5.4 REMEDIAL ACTION METHODS AND PROCEDURES

The following presents the general methodology and procedures to eventually implement the DEH-approved final remedy.

5.4.1 Construction of AOC Engineered Unit

The AOC Engineered Unit will be generally located over for shooting stations within the AOC (Figure 5-1). This location is a topographically high area of the AOC, providing approximately 40 feet of vertical distance between the bottom of the unit and groundwater. The bottom of the unit will be excavated to an elevation of approximately 170 feet above mean sea level (MSL).

[1] The assessment samples collected from RA1 cell HAF-114 were located directly over the sewer line. Therefore the samples from this cell appear to be representative of the Sewer line backfill, not the entire cell area. Therefore, based on field conditions observed at the time of remedial action, this cell may not be excavated to 3 fbg other than directly over the Sewer line. Confirmation soil sampling will be done to support any decision to limit the remedial excavation of this cell.

The historical high groundwater elevation in this area based on groundwater monitor well MW-6 is approximately 130 feet above MSL (Figure 5-2). The surface footprint of the AOC Engineered Unit will be approximately 4 acres in size. Excavated slopes will be 2 to 1 (horizontal to vertical) and vary in height from approximately 14 to 30 feet. Approximately 110,000 CY of soil will be excavated to construct the unit. This will allow for consolidation of approximately 65,000 CY of impacted soil within the unit, and the placement of approximately 5 feet of protective soil cover over the impacted soil (Figure 5-2). The source of the protective soil cover will be the soil generated as a result of excavating the unit. Un-impacted soil generated from excavating the unit will be segregated separately from impacted soil.

Final surface grades will generally match pre-existing conditions.

It is anticipated that conventional construction equipment, such as excavators, dozers, scrapers, graders, and compactors will be used to construct the AOC Engineered Unit.

5.4.2 Shooting Range Remediation Area RA1

Within RA1 but excluding selected areas on the Berm, the upper 0.5 to 3.0 feet of soil will be excavated based on the extent and depth of impacted soil illustrated in Figure 1-3. Selected areas on the Berm are included in the remedial action due to the observation of lead pellets on surface soil (Figure 1-4). The lead pellets from these surface-only areas and from areas identified to have impacted soil to 0.5 fbg will be removed using either high-vacuum suction equipment or by limited, shallow excavations. If excavated, only the upper 0.5 foot or less of soil will be excavated and only areas without protected plant species will be excavated. All excavated or high-vacuum suctioned material will either be temporarily stockpiled, or consolidated directly into the AOC Engineered Unit. It is anticipated that conventional construction equipment, such as excavators, dozers, scrapers, and graders will be used to excavate the impacted soil. The following section discusses the use of high-vacuum suction equipment.

5.4.3 MSCP Preserve Remediation Area RA2

Remedial activities in this area will be generally limited to the boundaries shown for RA2 in Figure 1-4, unless additional target debris is observed beyond the identified RA2 boundary. However, no remedial activities will be conducted in jurisdictional waters under the Army Corps of Engineers and California Department of Fish and Game guidelines (URS, 2006).

Target debris, lead pellets and incidental soil will be removed from RA2 using high-vacuum suction equipment and hand tools, except for selected portions of the Berm within RA2 that require the upper 0.5 to 3.0 feet of soil to be excavated (Berm cells HAB-12 through HAB-14). The vacuuming will be conducted in such a manner to prevent permanent disturbance to soil or vegetation. The high-vacuum truck(s) as well as support vehicles will be located on the shooting range outside of the MSCP Preserve. A vacuum hose (primary hose) connected to the high-vacuum truck will extend into RA2 from the shooting range. The vacuum hose may be as large

as 6-inches in diameter and can be up to 600 feet in length, but may vary depending on contractor. Smaller diameter hoses (secondary hoses) can be attached to the primary hose originating from the truck, which will allow as many as three vacuum hoses to be used at a time using a single high-vacuum suction truck. Vacuuming will be done in and around the existing native species of plants. Hand raking will be done as necessary to loosen debris in the top soil during vacuuming. In addition to the technicians vacuuming debris, other technicians may be assisting with raking and vacuum hose management. No direct impacts to sensitive species will occur and the vacuuming and raking will be monitored by a qualified field biologist. In order to avoid potential indirect impacts to nesting birds, all removal activities within the MSCP Preserve Area will occur outside of the bird breeding season.

The debris will be suctioned through the secondary and primary vacuum hoses back to the high-vacuum suction truck where it will be deposited into a bin or directly into a dump truck. The debris will then be transported to a stockpile area or consolidated directly into the AOC Engineered Unit by truck or loader.

Figure A-2 in Appendix D illustrates the cells that were used to assess lead and lead pellet impact in RA2. RA2 will be vacuumed one or two cells at a time using these same assessment cells. Field technicians will be guided by delineation tape used to identify the perimeter of each cell. After completion of debris removal for each cell, confirmation soil sampling will be conducted.

The excavation of the portions of the Berm that require the upper 0.5 to 3 feet of soil to be removed will be conducted using conventional construction equipment as described in Section 5.4.2.

5.4.4 Stockpiles

All impacted stockpiles, including SP-9, SP-10, SP-11, SP-12, SP-13 and the Target Debris Pile will be consolidated within the AOC Engineered Unit (Figure 1-8). Conventional construction equipment including backhoes, excavators, and dozers will be used to consolidate the stockpiles within the unit.

5.4.5 White Material

The approximate extent of the White Material is illustrated in Figure 1-5. Within this area, the upper few inches to 6 feet of soil will be excavated based on field observations of the White Material at the time of excavation. All excavated material will be either directly placed in trucks for off-Site disposal or placed in temporary stockpiles. The stockpiles will be loaded into trucks and removed from the Site. It is anticipated that conventional construction and transportation equipment, such as excavators, backhoes, dozers, loaders and trucks will be used to excavate, stockpile and haul off-Site the White Material.

5.4.6 Wood Debris Pile Remediation Area RA3

The approximate extent of RA3 is illustrated in Figure 1-6. Within this area, the upper 2 to 7.5 feet of wood debris will be excavated based on field observations of the wood at the time of excavation. Excavated material will be placed in temporary stockpiles. During excavation, easily identifiable coarse material such as creosote treated railroad ties and utility poles will be segregated into a separate pile from the untreated wood. Stockpiled wood would be transported to one or more landfills depending on the waste profile. Because the creosote treated wood exhibits the characteristic of toxicity under the Title 22 CCR Section 66261.24, the wood will require disposal at a landfill capable of accepting such waste. The untreated wood can be taken to a domestic landfill as "green waste" or as "alternative daily cover", which would require chipping of the wood at the Site and/or landfill. It is anticipated that conventional construction and transportation equipment, such as excavators, backhoes, dozers, loaders and trucks will be used to excavate, stockpile and haul off-Site the wood debris.

5.4.7 Site Grading Post Remedial Action

Once the impacted soil has been excavated and consolidated with the AOC Engineered Unit, RA1 and potentially the Berm will be graded to pre-remedial action elevations. The source of the soil to be used as backfill to achieve pre-remedial action elevations will be the soil generated as a result of excavating the AOC Engineered Unit. It is anticipated that conventional construction equipment, such as excavators, dozers, scrapers, graders, and compactors will be used to grade the Site.

5.5 PROCEDURES AND PLANS

The RDIP will present procedures and/or plans for the following:

- Dust control;
- Perimeter air monitoring;
- Soil management, including stockpiles;
- Field variances (variances from this RAP and the RDIP);
- Confirmation sampling and analysis;
- Offsite transportation of White Material and Wood Debris Pile;
- Site traffic control;
- Record keeping;
- Health and safety; and
- Monitoring and reporting.

6.0 LONG TERM STEWARDSHIP OF FINAL REMEDY

6.1 INSTITUTIONAL CONTROLS

Institutional controls (ICs) are required to protect the integrity of the AOC Engineered Unit and to minimize the potential for human exposure to the impacted soil with the unit. ICs in the form of a land use covenant (LUC), in the form of a Restrictive Covenant Agreement, are intended to guarantee that information about a property containing residual contamination is available to local governments, the public, prospective purchasers and tenants. A LUC is also used to ensure O&M of long-term mitigation and monitoring measures.

A LUC will place use restrictions on the Site because PCOCs above levels acceptable for planned land use, lead pellets and target debris, will continue to exist beneath the Site, within the AOC Engineered Unit (Figures 5-1 and 5-2). These controls will still allow an appropriate range of future uses for the property, with limits concerning use directly over the AOC Engineered Unit. For example, a parking lot would be an acceptable use, whereas deep building foundations or underground utilities that could potentially impact the integrity of the unit's cap would not. In addition, depending on the AOC Engineered Unit's final design, certain business activities may not be compatible over the unit. The LUC will therefore reference certain business activities that will be considered inappropriate immediately above the AOC Engineered Unit.

Generally, the LUC is deemed to be effective with respect to controlling exposures because the restrictive covenant runs-with-the-land and the use restrictions are recorded with the County Assessor's office.

The LUC would also require non-interference with required and continuing groundwater monitoring, and would govern AOC Engineered Unit operation and maintenance.

6.2 ASSURANCE OF FINANCIAL RESPONSIBILITY

Flat Rock will work with DEH to put in place an appropriate mechanism for assurance of financial responsibility consistent with Flat Rock's ongoing responsibility to perform O&M measures and to perform necessary work on the cap over a 30-year time period.

6.3 OPERATION AND MAINTENANCE

Operation and maintenance of the cap will be required to ensure the cap is functioning as intended. An operation and maintenance plan (O&M Plan) will be included in the RDIP. Operation and maintenance activities will include the following:

- Inspections which will be scheduled on a routine basis as well as after or during onsite construction activities that may affect cap integrity.
- Repairs and maintenance as necessary based on cap inspections; and

- Reporting, recordkeeping and notifications.

In accordance with DEH's and DTSC's requests, the Draft RAP provides an estimate of AOC Engineered Unit cap replacement costs.

Consistent with DTSC's comment as part of the Site Designation Committee review of the Draft RAP and as reflected in DEH's January 17, 2012 letter, Flat Rock understands that DTSC has requested that the Draft RAP include the estimated costs for O&M of the AOC Engineered Unit cap and the cost for cap replacement. O&M costs are assumed to range from approximately $17,000 per year for five years while the surface of the cap is in a re-seeded/re-vegetated state and approximately $5,000 per year thereafter following expected installation of an asphalt parking lot. Given these assumptions, it is estimated that total O&M costs could be approximately $210,000 with a net present value (NPV) of approximately $153,000 over 30 years. This assumes an NPV rate of three percent.

The AOC Engineered Unit covers approximately four acres; the estimated cost of a major repair of the asphalt parking lot, which would act as a surface cap, is estimated to be approximately $434,000 with an NPV of approximately $179,000. The costs assume typical construction costs as well as typical environmental project costs, such as the preparation of plans, permits and regulatory agency meetings and approval. The NPV cost also assumes an NPV rate of three percent.

7.0 CALIFORNIA ENVIRONMENTAL QUALITY ACT

In accordance with the California Environmental Quality Act (CEQA), a mitigated negative declaration (MND) has been prepared by the San Diego County Department of Planning and Land Use. Upon final agency approval of the RAP, project design features and mitigation measures identified in the MND shall become binding conditions of project approval and thereby incorporated as part of the agency approved final remedy. Such project design features and mitigation measures will be set forth as an Appendix in the Final RAP.

8.0 IMPLEMENTATION SCHEDULE

A tentative implementation schedule will be included in the RDIP. Tasks to be included in the schedule are shown below. These activities will take place as part of, and/or following the public participation process described in Section 8.0, below.

Tasks
1) Submit RDIP to DEH

Tasks
2) CEQA Environmental Initial Study and approvals
3) Obtain necessary permits.
4) Conduct remedial action
5) Prepare LUC/Restrictive Covenant Agreement
4) Conduct operation and maintenance of AOC Engineered Unit

9.0 PUBLIC PARTICIPATION

Generally, the RAP process includes conducting a baseline community survey and/or developing an appropriate mailing list, developing necessary elements of a Public Participation Plan, publishing a public notice of the public comment period (minimum 30-days) in a local newspaper of general circulation, distributing a fact sheet describing the remedy selection process and the proposed final remedy, making available the Draft RAP for public comment, conducting a community meeting during the public comment period, and publishing a subsequent responsiveness summary/agency Response to Comments responding to comments received during the public comment period. Members of the public interested in reviewing applicable Site-related documents will be directed to DEH's San Diego office file room, to the online databases, GeoTracker (operated by the State Water Resources Control Board) and EnviroStor (operated by DTSC), the South Chula Vista Public Library (the official Site Document Repository), and other applicable document repositories to conduct their review. All comments received during the public comment period will be responded to in writing and distributed to everyone who submits a comment. As part of the above process and consistent with DEH's designated lead agency status under AB 2061, DEH will convene a meeting of the Consultative Workgroup in advance of the public comment period. The purpose of that meeting will be to allow the Consultative Workgroup the opportunity to provide guidance and/or comment, if any, to DEH with respect to the Draft RAP.

The public participation requirements for the RAP process include the following. Final dates will be identified in consultation with DEH.

Public Participation Requirements
1) Preparation of Mailing List and Fact Sheet

Public Participation Requirements
2) 30-day public comment period.
3) Publish public notice of the availability of the Draft RAP for public review and comment, in a local newspaper of general circulation
4) Posting a notice of the availability of the Draft RAP for public review and comment at the Site.
5) Distributing a fact sheet to the Site mailing list describing the proposed remedy and the availability of the draft RAP for public comment;
6) Making the Draft RAP and other supporting documents available at DEH's office and in the local and online information repository(ies).
7) Conducting a public meeting during the public comment period for the Draft RAP
8) Responding to public comments received on the Draft RAP and CEQA documents.

Once the public comment period is completed, DEH will review and respond to the comments received. The Draft RAP will be revised, as necessary, to address the comments received. If significant changes to the Draft RAP are required, the Draft RAP will be revised and may be resubmitted for public review and comment. If significant changes are not required to the Draft RAP, the Draft RAP will be modified and DEH will approve the modified Final RAP. Flat Rock will thereafter proceed to implement the DEH-approved final remedy for the Site.

10.0 REFERENCES

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0 1/4 1/2 3/4 1 MILE

SCALE 1" = 2,000'

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Maps:
Imperial Beach and Otay Mesa Quadrangles
Photorevised 1975

INDEX MAP

Former Otay Skeet and
Trap Shooting Range
5350 Heritage Road
Chula Vista, California

TRC

FIGURE 1-1

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-IM.dwg; 8.5x11, Nov 17, 2009-3:11pm kdrilling

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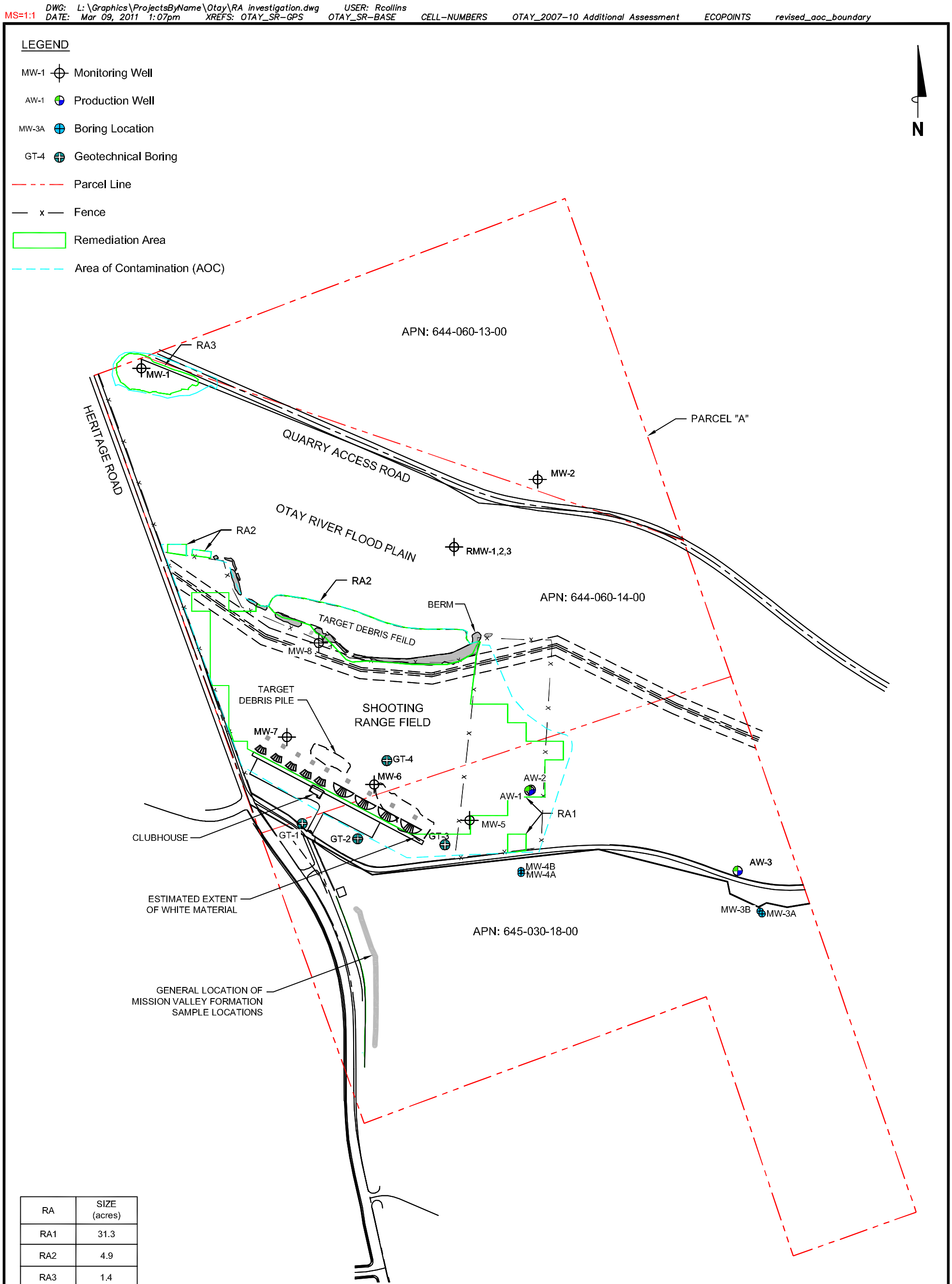


RA	SIZE (acres)
RA1	31.3
RA2	4.9
RA3	1.4

NOTES:

APN = Assessors Parcel Number. RA = Remediation area. RA1 = Shooting Range Field, Sewer backfill, Target Debris Pile and Berm. RA2 = Otay River Flood Plain and Target Debris Field. RA3 = Wood Debris Pile. All dimensions and locations are approximate.

SCALE (FEET)
0 500

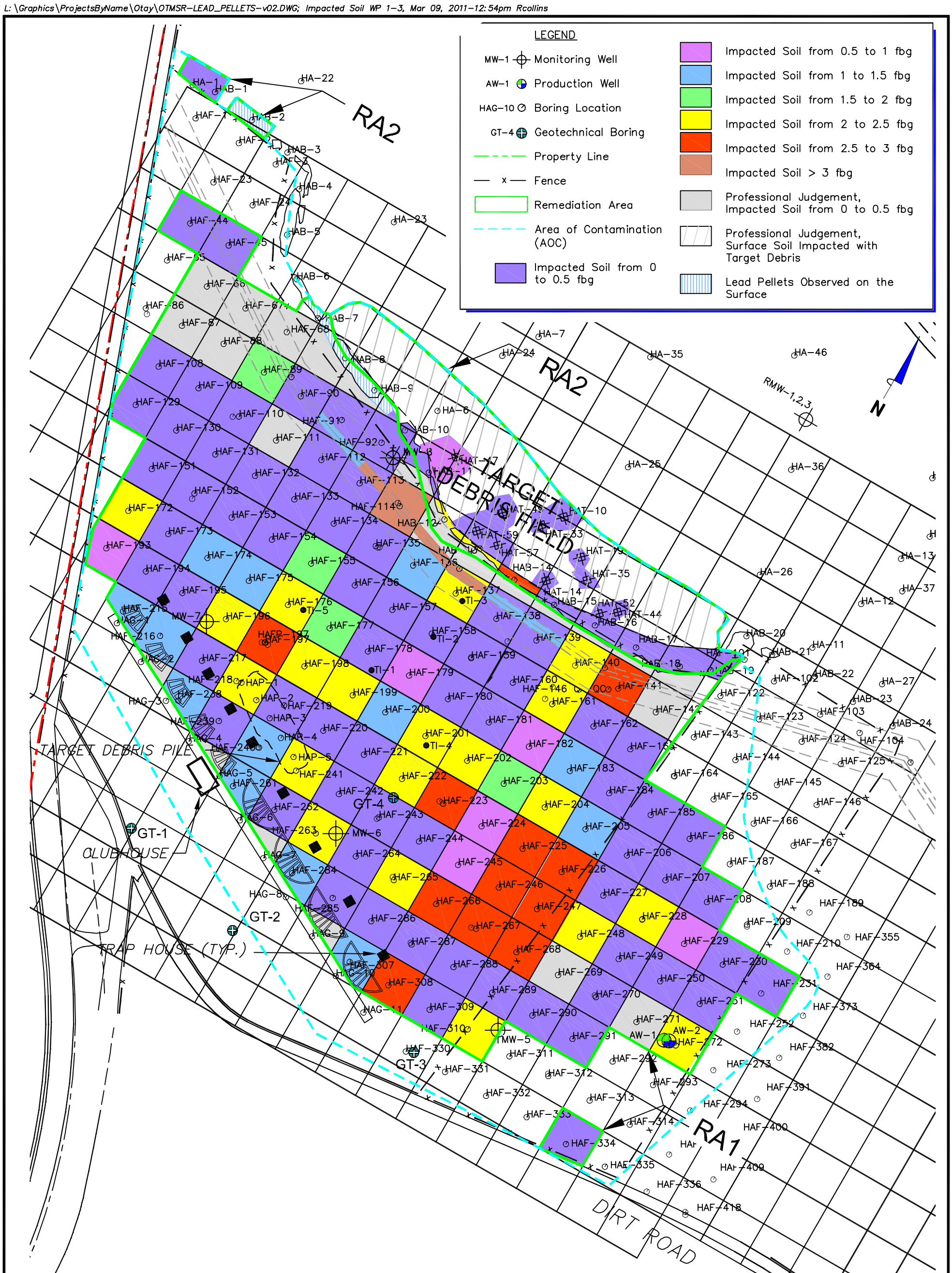
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

SITE PLAN

FIGURE 1-2

L:\Graphics\ProjectsByName\Otay\OTMSR-LEAD_PELLETS-v02.DWG; Impacted Soil WP 1-3, Mar 09, 2011-12:54pm Rcollins



NOTES:

Impacted Soil = soil with lead pellets, total lead concentrations greater than or equal to 150 mg/kg, and/or detected benzo(a)pyrene concentrations. mg/kg = milligrams per kilogram. fbg = feet below grade. All dimensions and locations are approximate.

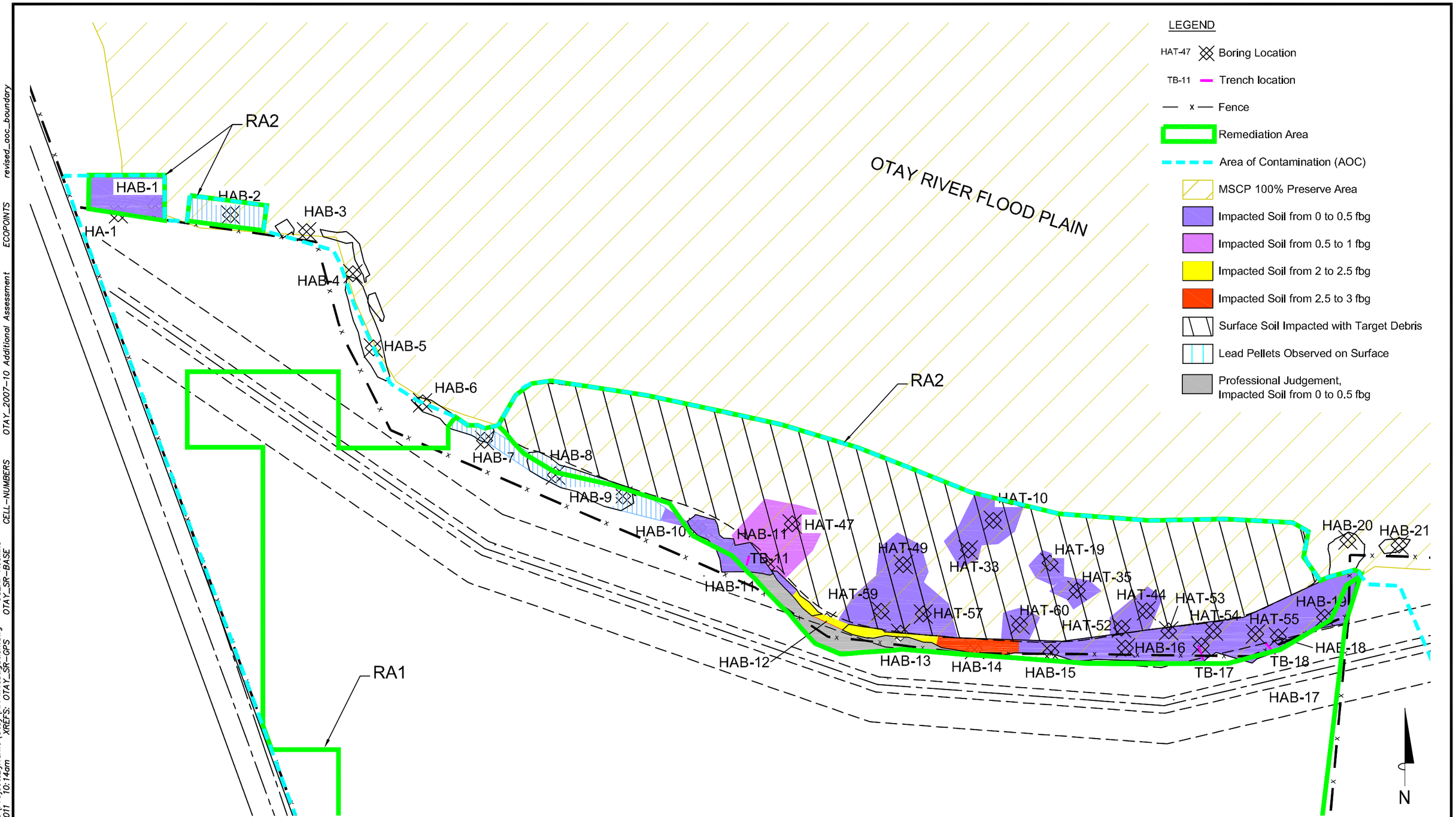
SCALE (FEET)
0 200

TRC

FACILITY:
Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

EXTENT AND DEPTH OF IMPACT REMEDIATION AREAS RA1 AND RA2

FIGURE 1-3



NOTE:

RA = Remediation area. All dimensions and locations are approximate.

SCALE (FEET)

0 120

TRC

FACILITY:

Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

EXTENT AND DEPTH OF IMPACT REMEDIATION AREA RA2

FIGURE 1-4

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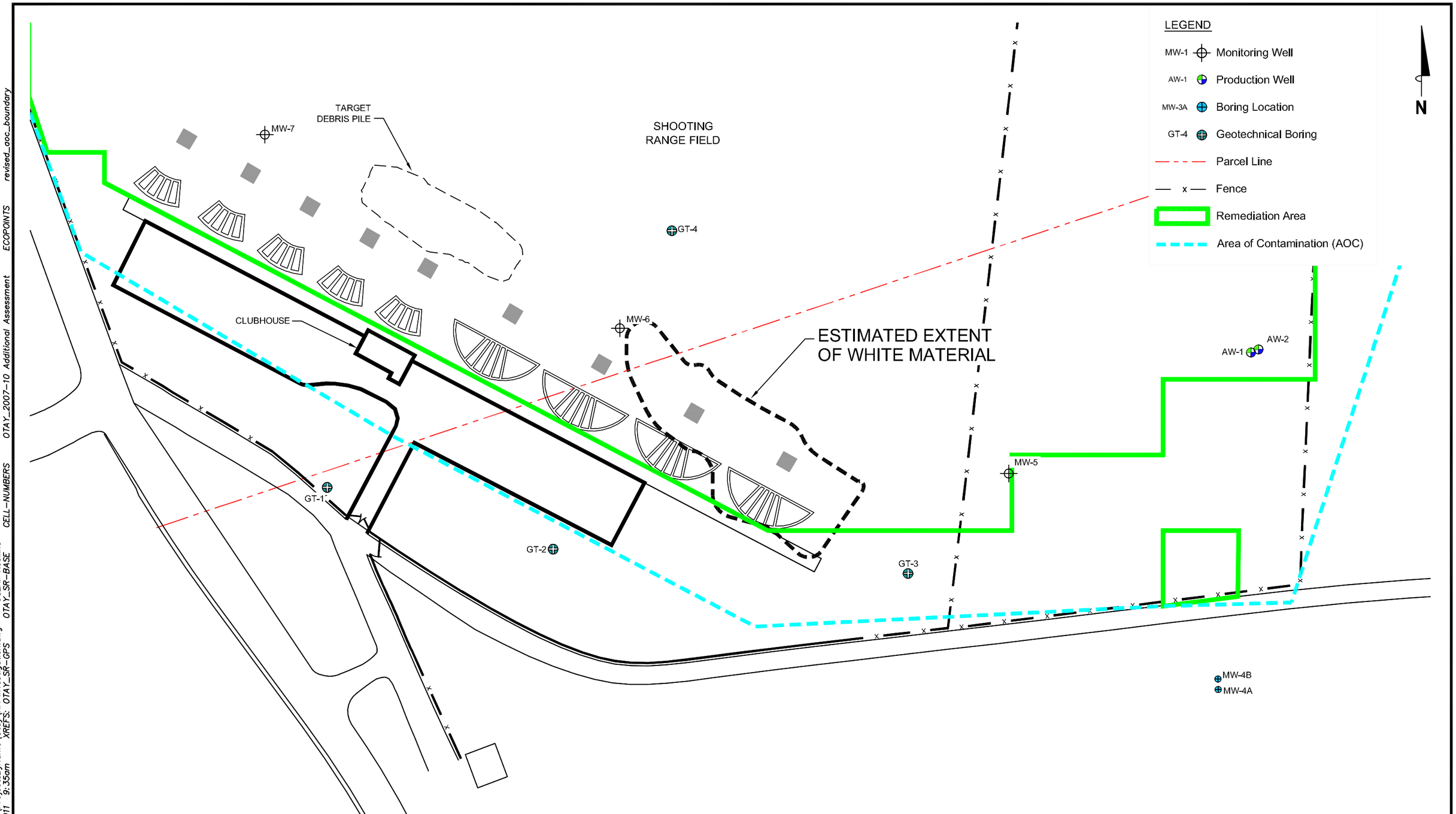

NOTES:

All dimensions and locations are approximate.

SCALE (FEET)

0 120

TRC

FACILITY:

Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

EXTENT OF WHITE MATERIAL

FIGURE 1-5

DWG: L:\Graphics\ProjectsByName\Otay\RA investigation.dwg
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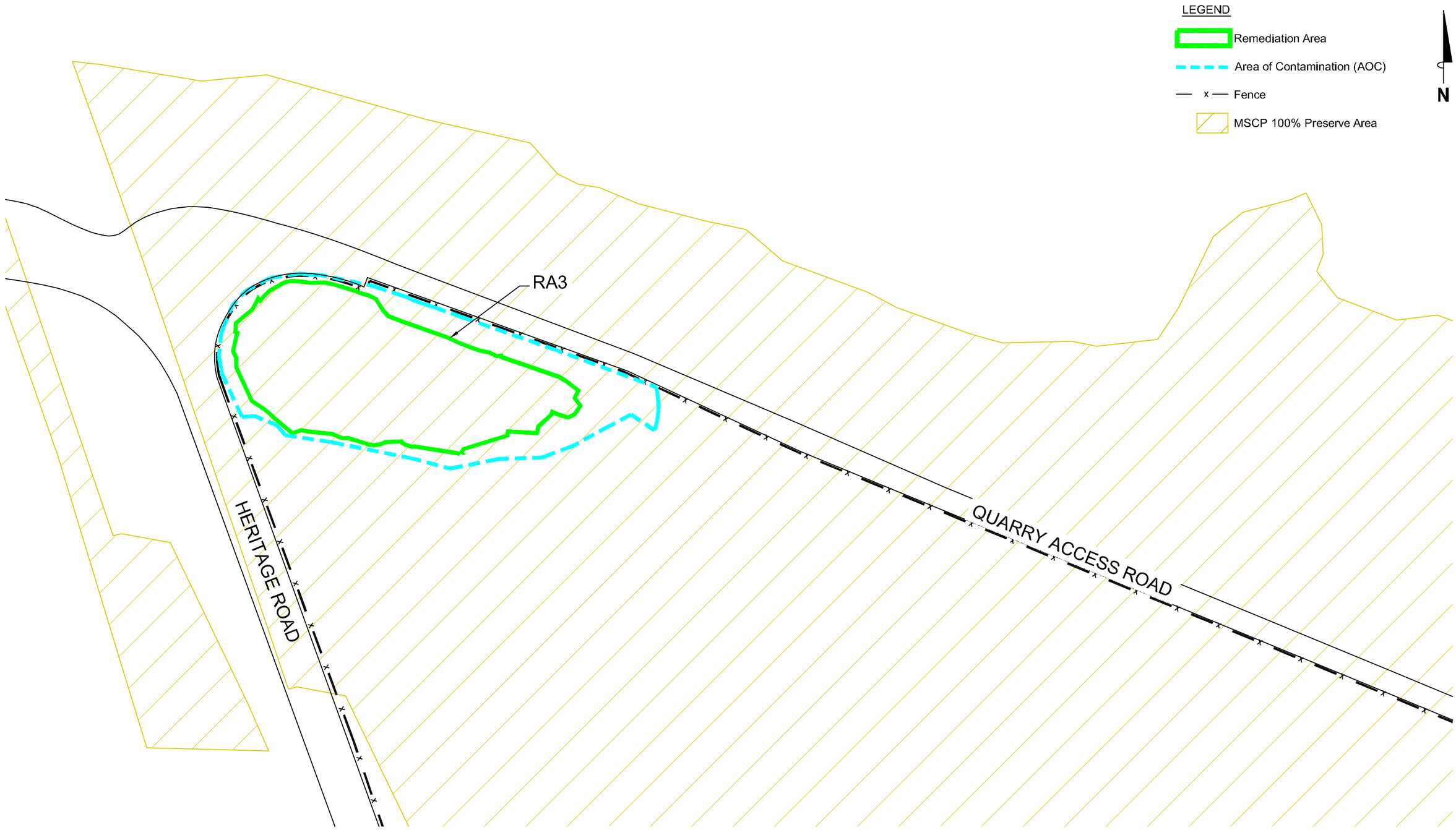

NOTE:

Streets modified from a map provided by Google Earth, 2010. All dimensions and locations are approximate.

SCALE (FEET)
0 120

TRC

FACILITY:
Former Otay Skeet and
Trap Shooting Range
5350 Heritage Road
Chula Vista, California

EXTENT OF IMPACT
REMEDIATION AREA RA3

FIGURE 1-6

DWG: L:\Graphics\ProjectsByName\Otay\RA investigation.dwg USER: Rcollins
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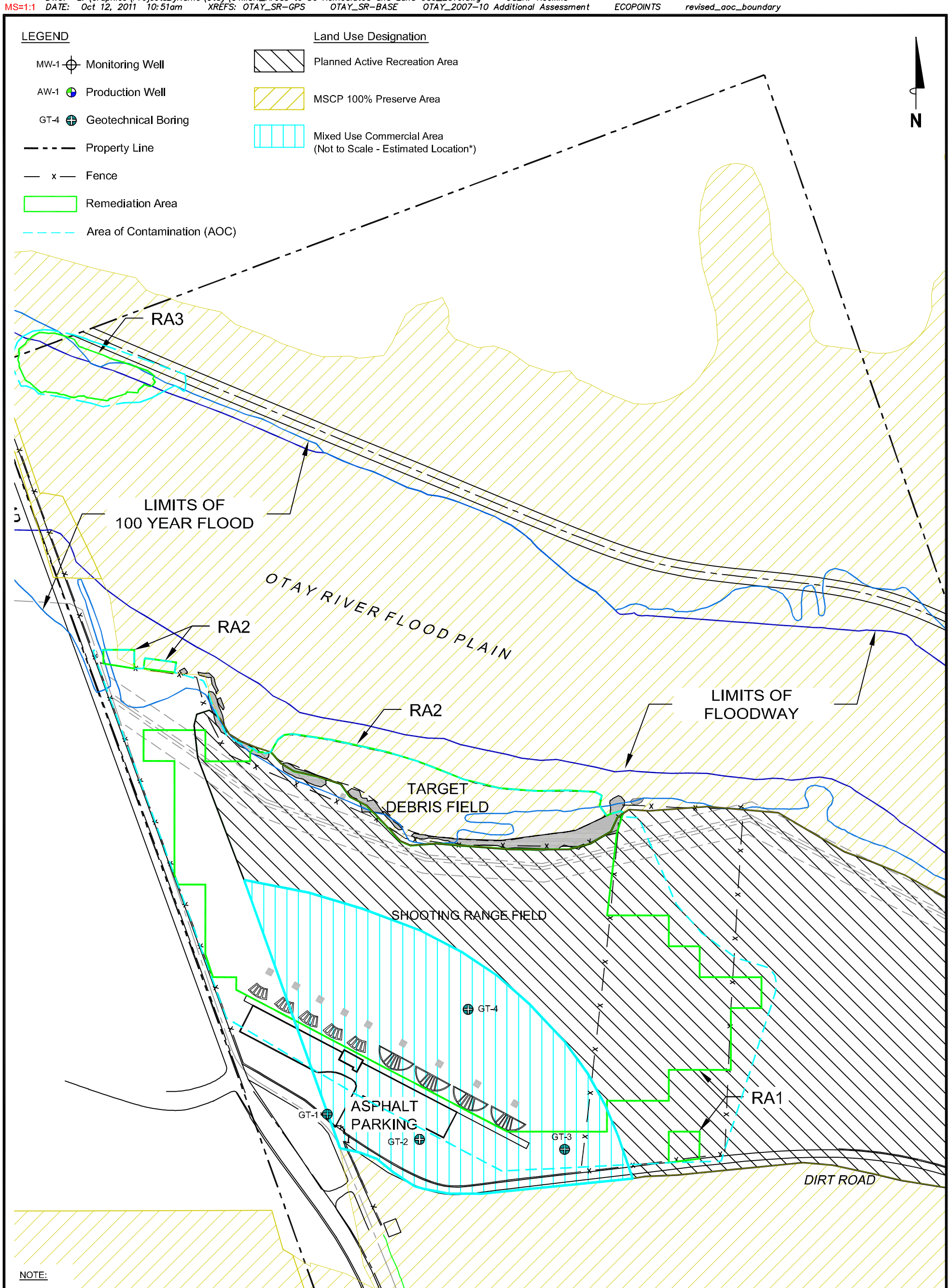

NOTE:

* = Area and location of Mixed Use Commercial is not to scale. All dimensions and locations are approximate.

Source:

Flood Plan from SanGIS, 2008. Active recreation and MSCP 100% preserve area from City of Chula Vista, 2010. Mixed Use Commercial Area from City of Chula Vista, 2005.

SCALE (FEET)
0 300

TRC

FACILITY:
Former Otay Skeet and
Trap Shooting Range
5350 Heritage Road
Chula Vista, California

REMEDIATION AREAS AND LAND USE

FIGURE 1-7

DWG: L:\Graphics\ProjectsByName\Otay\OTMSR-STOCKPILE.DWG USER: Rcollins
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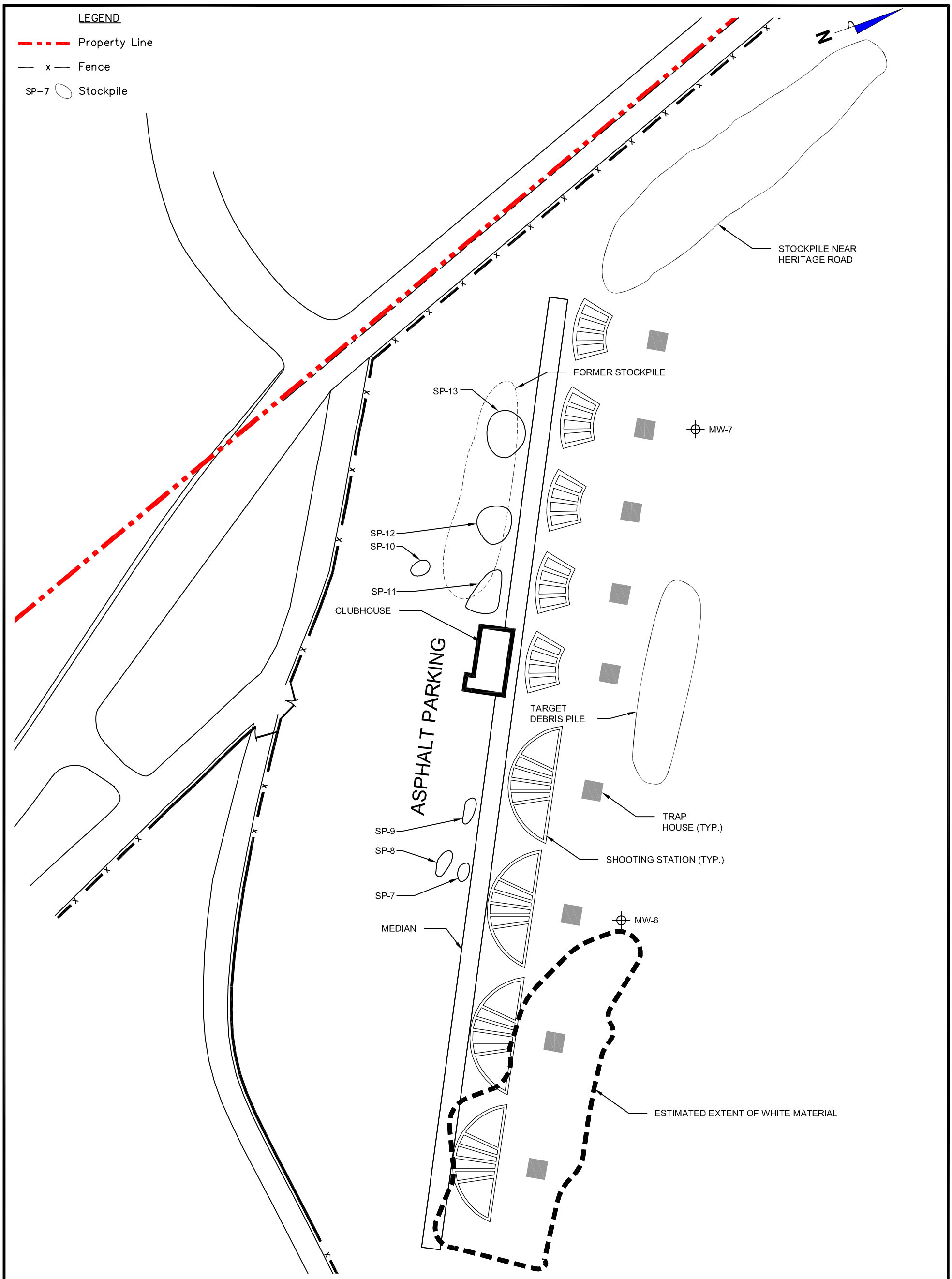

NOTES:

All dimensions and locations are approximate.

SCALE (FEET)
0 100

TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

STOCKPILE LOCATIONS

FIGURE 1-8

DWG: L:\Graphics\ProjectsByName\Otay\OTAY-SITEPLAN.DWG USER: Rcollins
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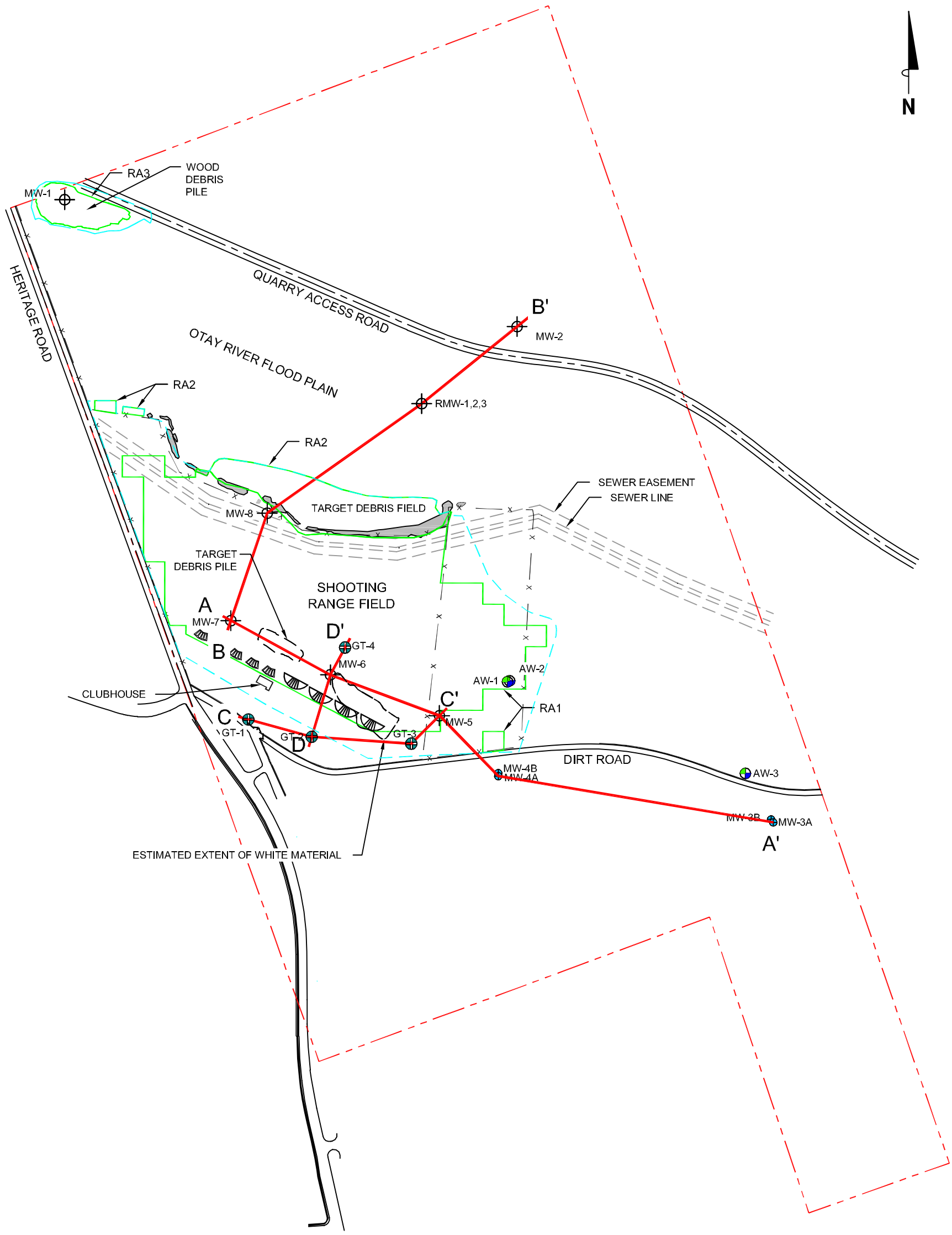


LEGEND

MW-1	Monitoring Well		Parcel Line
AW-1	Production Well		Fence
MW-3A	Boring Location		Berm
GT-4	Geotechnical Boring		Remediation Area
	Area of Contamination (AOC)	A — A'	Cross Section Location

NOTES:

RA = Remediation area. RA1 = Shooting Range Field, Sewer backfill, Target Debris Field and Berm. RA2 = Otay River Flood Plain and Target Debris Field. RA3 = Wood Debris Pile. All dimensions and locations are approximate.

SCALE (FEET)
0 500

TRC

FACILITY:
Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

SITE PLAN SHOWING CROSS SECTION LOCATIONS

FIGURE 1-9

LEGEND

MW-7 Monitoring Well

Blank Casing

Slotted Casing

Silts and Clays

Silty and Clayey Sands

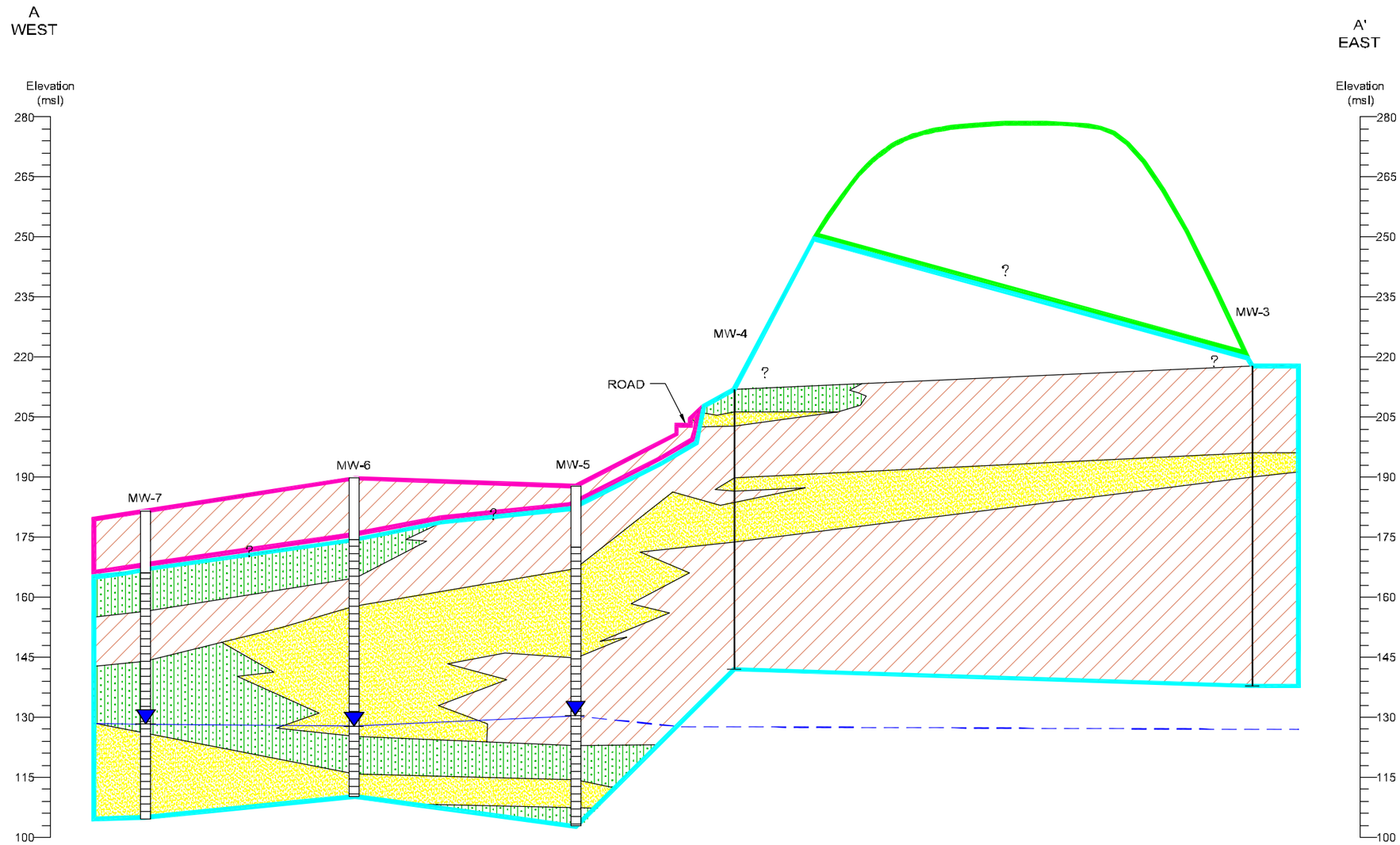
Sands and Gravels

Qt Quaternary Stream-Terrace Deposits

Tmv Eocene Mission Valley Formation

To Miocene-Pliocene Otay Formation

Approximate Observed Groundwater Level (Measured March 2008)



30 SCALE (feet) 300

NOTES:

This is one interpretation of the data. other interpretations are possible. See Figure 1-4 for location of Cross Section. All dimensions and locations are estimated.

TRC

FACILITY:
Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

CROSS SECTION A-A'

FIGURE 1-10

DWG: L:\Graphics\ProjectsByName\Otay\X-Sect_A-D.dwg USER: Rcollins
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LEGEND

MW-7 Monitoring Well

Blank Casing

Slotted Casing

Silts and Clays

Silty and Clayey Sands

Sands and Gravels

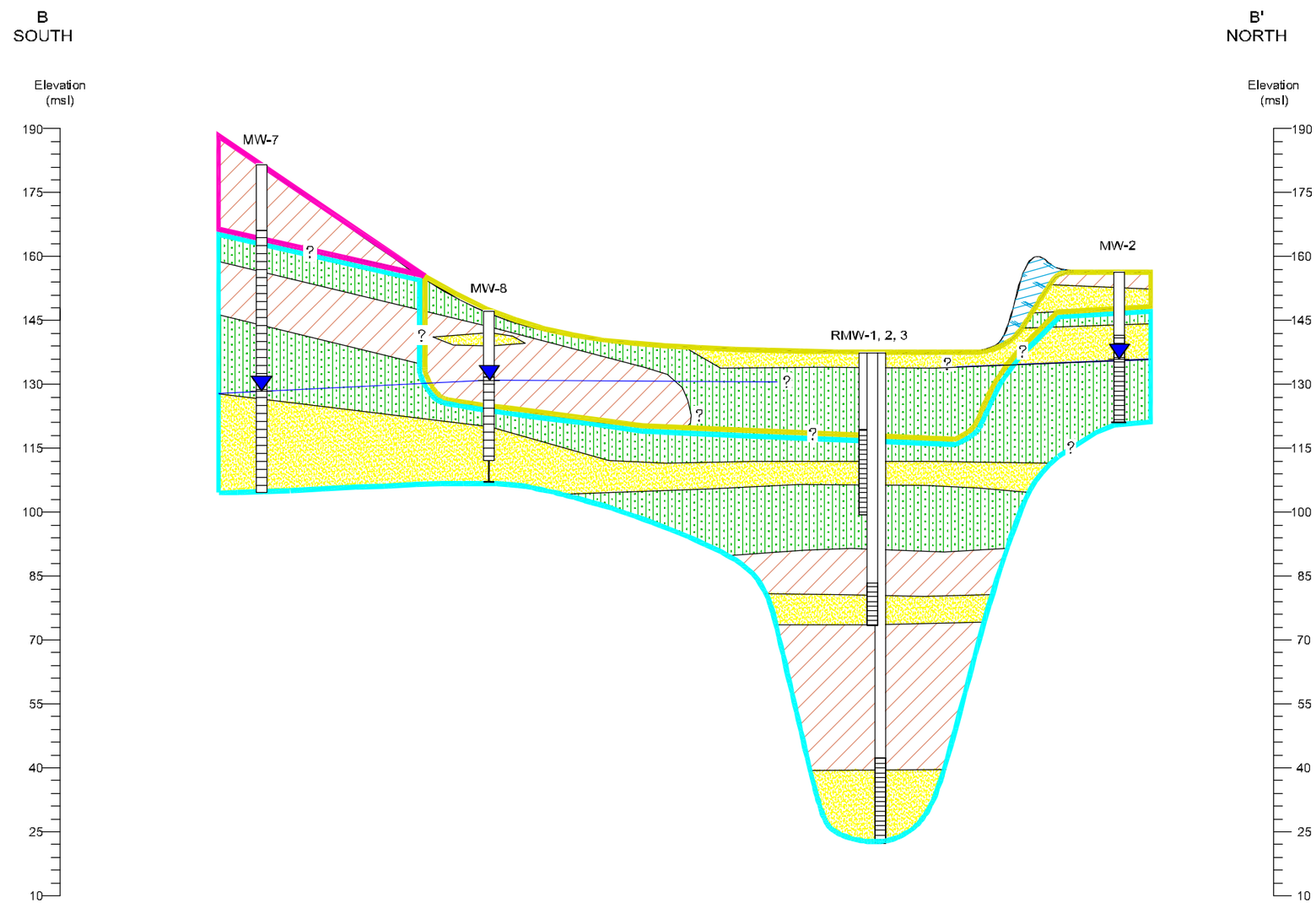
Artificial Embankment (Approximate)

Qt Quaternary Stream-Terrace Deposits

Tmv Eocene Mission Valley Formation

To Miocene-Pliocene Otay Formation

Approximate Observed Groundwater Level (Measured March 2008)



30 SCALE (feet) 300

NOTES:

This is one interpretation of the data. other interpretations are possible. See Figure 1-4 for location of Cross Section. All dimensions and locations are estimated.

TRC

FACILITY:
Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

CROSS SECTION B-B'

FIGURE 1-11

DWG: L:\Graphics\ProjectsByName\Otay\X-Sect_A-D.dwg USER: Rcollins
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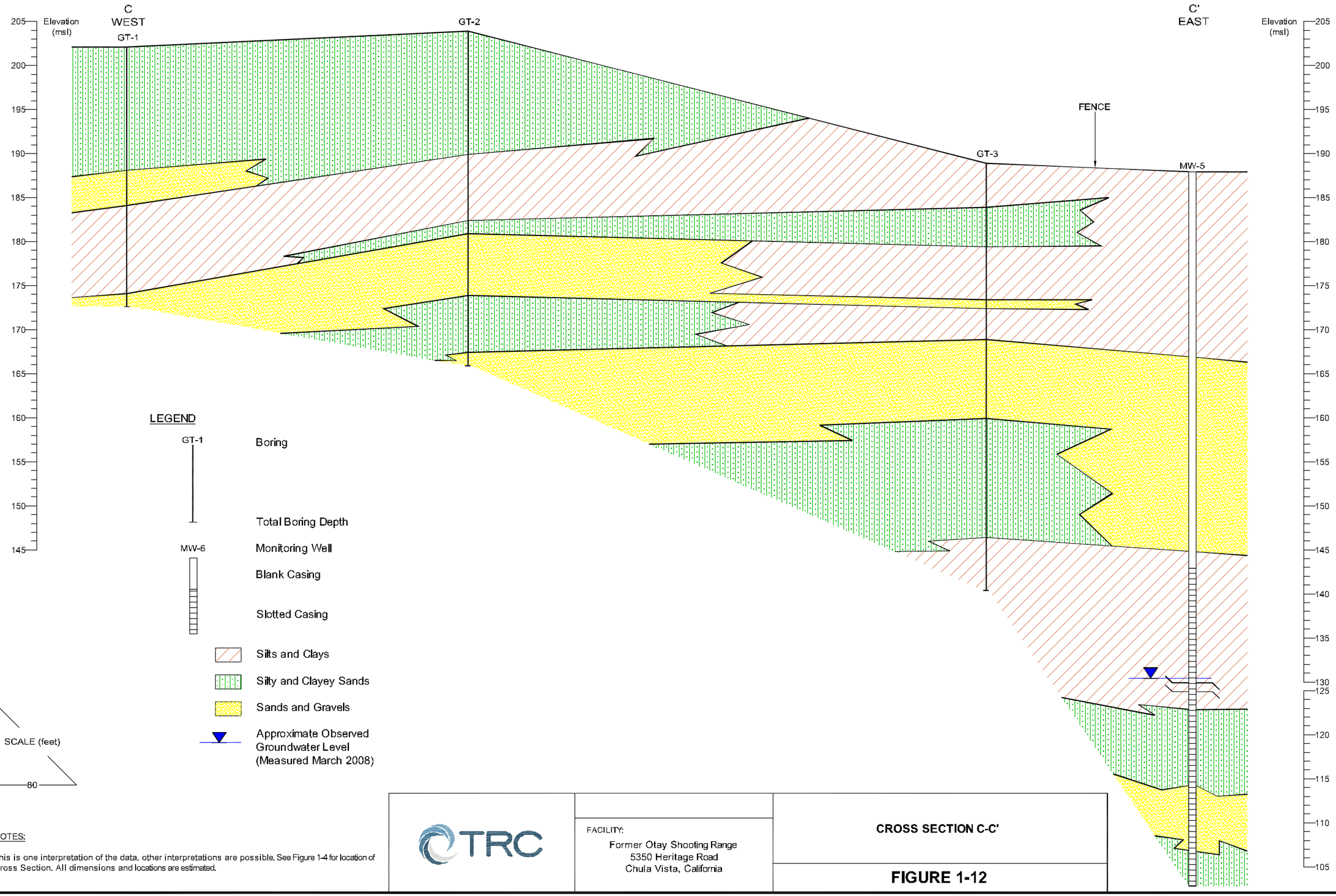

NOTES:

This is one interpretation of the data. other interpretations are possible. See Figure 1-4 for location of Cross Section. All dimensions and locations are estimated.

TRC

FACILITY:
Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

CROSS SECTION C-C'

FIGURE 1-12

DWG: L:\Graphics\ProjectsByName\Otay\X-Sect_A-D.dwg USER: Rcollins
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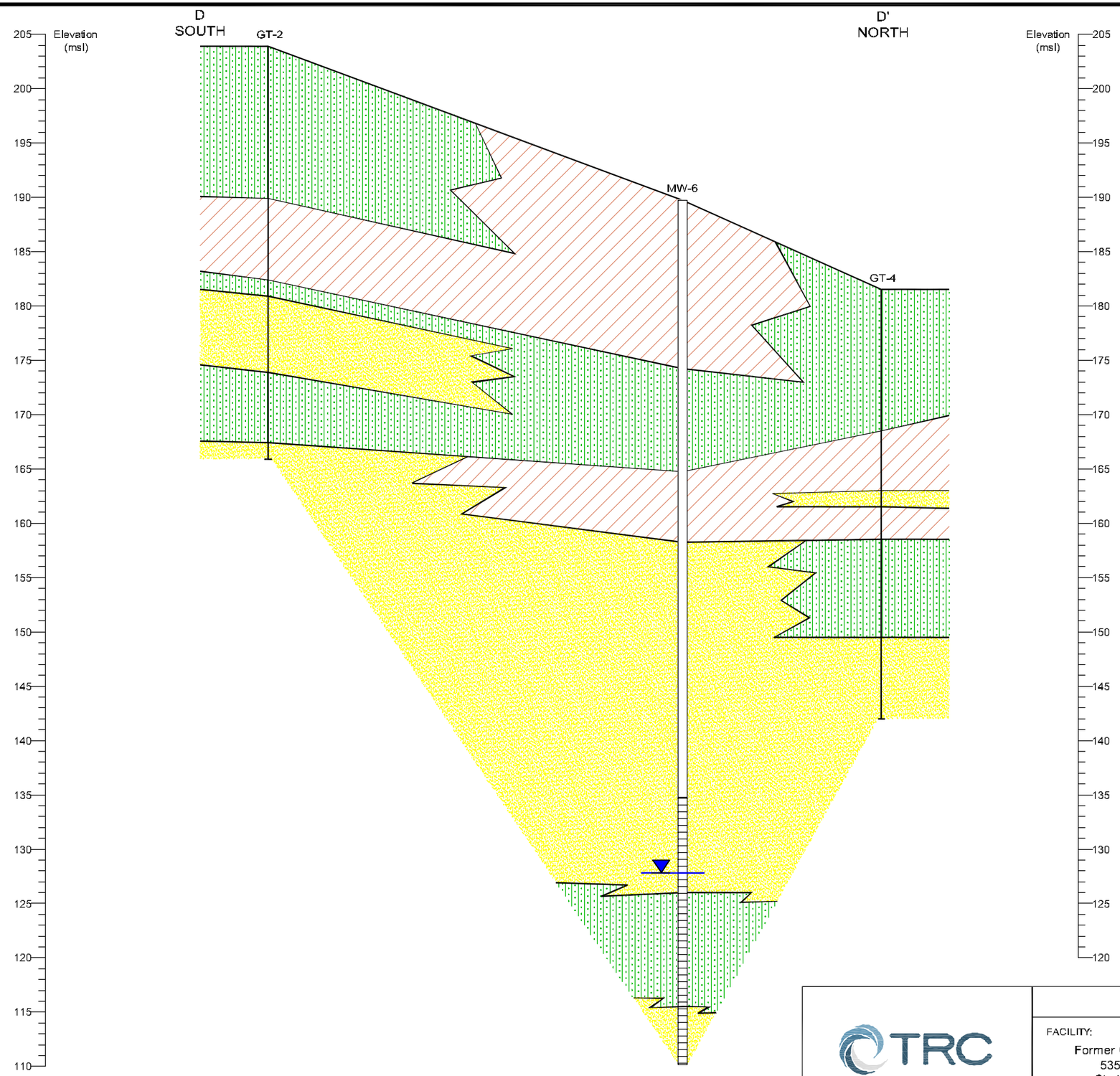

LEGEND

GT-1 — Boring

Total Boring Depth

MW-6 — Monitoring Well

Blank Casing

Slotted Casing

Silts and Clays

Silty and Clayey Sands

Sands and Gravels

Approximate Observed Groundwater Level (Measured March 2008)

10 SCALE (feet) 80

NOTES:

This is one interpretation of the data. other interpretations are possible. See Figure 1-4 for location of Cross Section. All dimensions and locations are estimated.

TRC

FACILITY:
Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

CROSS SECTION D-D'

FIGURE 1-13

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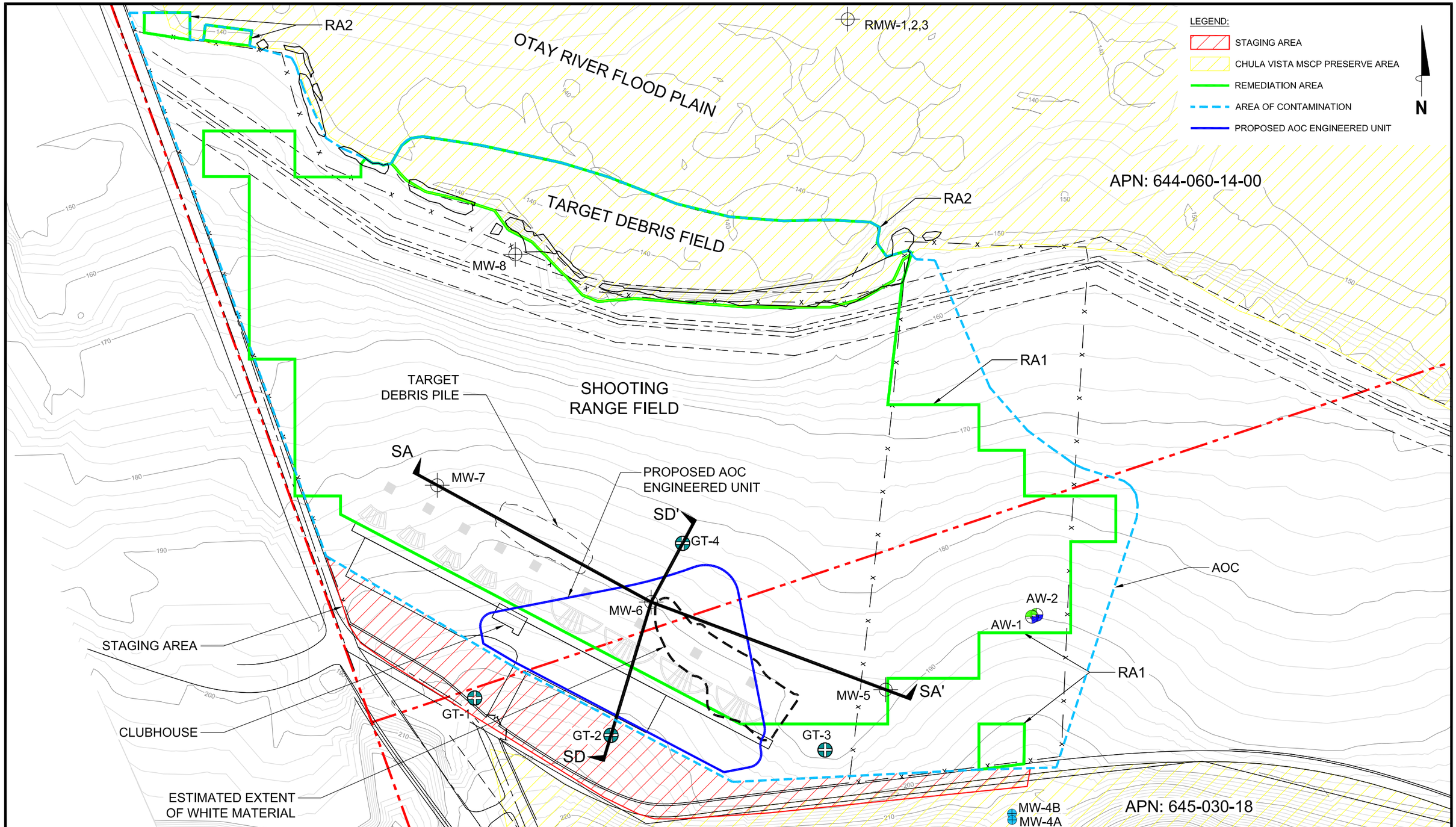


NOTES:

1. RA = Remediation area. RA1 = Shooting Range Field, Sewer backfill, Target Debris Pile and portions of the Berm. RA2 = Otay River Flood Plain, Target Debris Field and portions of the Berm. AOC = Area of Contamination. All dimensions and locations are approximate.
2. Base Topography with 2-foot contour interval.
3. Cross Section SA-SA' is a subsection of A-A' and SD-SD' is a subsection of D-D'.

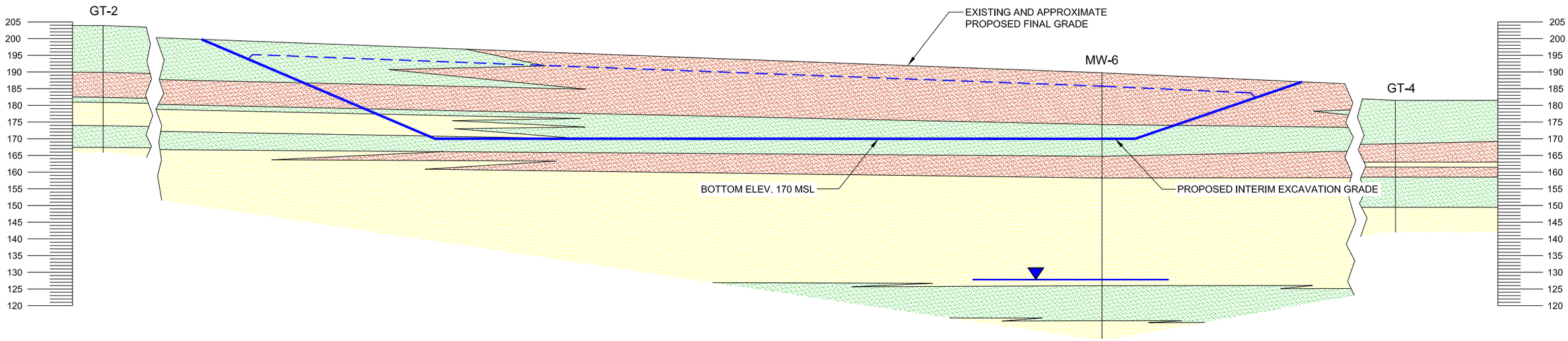
SCALE (FEET)
0 200

TRC

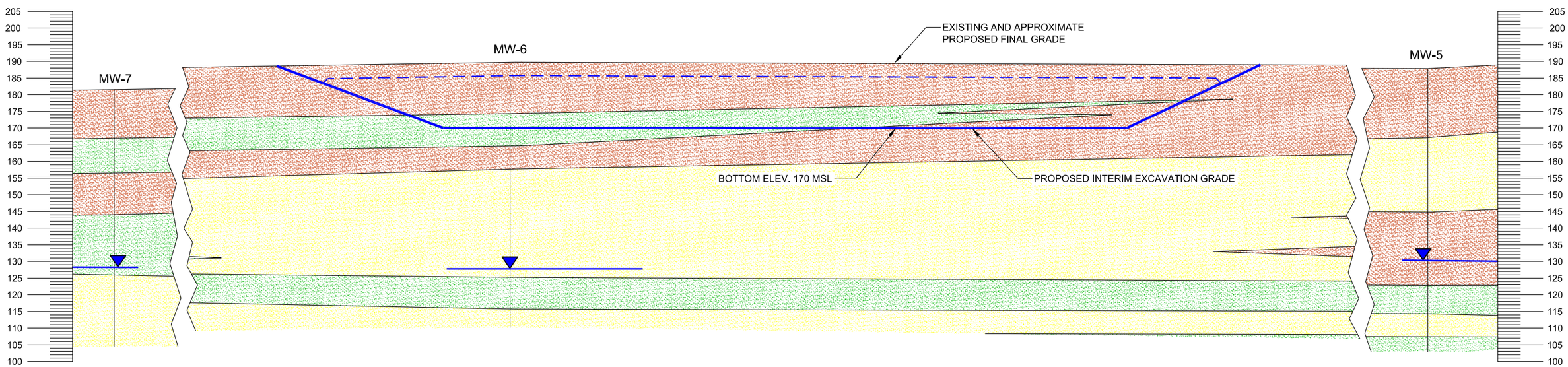
FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

SITE PLAN SHOWING PROPOSED AOC ENGINEERED UNIT

FIGURE 5-1



SECTION SD-SD'



SECTION SA-SA'

LEGEND

- AOC ENGINEERED UNIT
- Silts and Clays
- Silty and Clayey Sands
- Sands and Gravels
- Approximate Observed Groundwater Level (Measured March 2008)

SCALE (FEET)

0 30

TRC

FACILITY:

Former Otay Skeet and
Trap Shooting Range
5350 Heritage Road
Chula Vista, California

PROPOSED AOC ENGINEERED UNIT CROSS SECTIONS

FIGURE 5-2

TABLE 4-1

Shooting Range
Summary Evaluation of Retained Alternatives
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Criteria	Maximum Possible Score	Alternative 1 On-Site Containment In AOC Engineered Unit or CAMU		Alternative 2 Off-Site Disposal of All Soil with No Treatment		Alternative 3 On-Site Stabilization and Off-Site Disposal of All Soil		Approach 4 Wet Sieve / Gravity Separate to Remove Lead Pellets, On-Site Retention and Offsite Disposal	
		Comment	Score	Comment	Score	Comment	Score	Comment	Score
1. Overall Protection of Human Health and the Environment		The NCP further states that this criteria "draws on the assessments of other evaluation criteria, especially long-term effectiveness and permanence, short-term effectiveness, and compliance with Applicable or Relevant and Appropriate Requirements (ARARs)." Therefore, the scores in this category are linked to other criteria.							
Long-Term[1]:	1.33	See long term performance	1.00		1.33		1.33		0.67
Short-Term[1]:	1.33	See short term performance	1.33		0.78		0.67		0.55
Compliance with ARARs[1]:	1.33	See compliance with ARARs	1.33		1.33		1.33		1.33
2. Compliance with Applicable or relevant and appropriate requirements (ARARs)	4	ARARs would be met (note that Chemical Specific ARARs regarding Land Disposal Restrictions (LDRs) are not applicable to a Unit).	4	ARARs would be met.	4	ARARs would be met.	4	ARARs would be met.	4
3. Long-term Effectiveness and Performance	4	There will remain low residual risk as a result of untreated soil placed in a Unit on-Site. Therefore, this alternative is ranked lower than Alternatives 2 and 3. However, the impacted soil will be capped and the cap will be maintained. Therefore, this alternative ranks higher than Alternative 4, which will leave treated soil on-Site without capping.	3	There will be no residual risk since the impacted soil will be removed from the Site, and there will be no requirement for containment systems or institutional controls. Therefore, this Alternative gets the highest possible score.	4	There will be no residual risk since the impacted soil will be removed from the Site, and there will be no requirement for containment systems or institutional controls. Therefore, this Alternative gets the highest possible score.	4	Treated soil will be left on-Site without any containment or institutional controls. Therefore, this alternative is ranked below all other alternatives.	2
4. Reduction of Toxicity, Mobility, and Volume Through Treatment									
Toxicity[2]:	1.33	There will be no reduction in toxicity, so this alternative receives the lowest score of all four alternatives.	0.67	There will be some reduction in toxicity as a result of adding a stabilizing agent to achieve none-RCRA waste classification. However, there will be no lead removal, so this alternative scores lower than Alternative 4. The alternative scores the same as Alternative 3.	1.00	There will be some reduction in toxicity as a result of adding a stabilizing agent to achieve none-RCRA waste classification. However, there will be no lead removal, so this alternative scores lower than Alternative 4. The alternative scores the same as Alternative 2.	1.00	There will be reduction in toxicity as a result of removing lead pellets and potentially clay target debris. Some further reduction in toxicity as a result of adding a stabilizing agent to achieve none-RCRA waste classification prior to land disposal. This alternative scores the highest of the four alternatives.	1.33

TABLE 4-1

Shooting Range
Summary Evaluation of Retained Alternatives
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Criteria	Maximum Possible Score	Alternative 1 On-Site Containment In AOC Engineered Unit or CAMU		Alternative 2 Off-Site Disposal of All Soil with No Treatment		Alternative 3 On-Site Stabilization and Off-Site Disposal of All Soil		Approach 4 Wet Sieve / Gravity Separate to Remove Lead Pellets, On-Site Retention and Offsite Disposal	
		Comment	Score	Comment	Score	Comment	Score	Comment	Score
Mobility:	1.33	There will be a reduction in mobility as a result of consolidation, capping and maintenance, but there will be no treatment to reduce mobility, therefore this alternative receives the lowest score of the four alternatives.	0.67	Reduction in mobility as a result of land disposal facility management practices and adding stabilizing agent. However, there will be no lead pellet removal, so this alternative scores lower than Alternative 4. This alternative scores the same as Alternative 3.	1.00	Reduction in mobility as a result of land disposal facility management practices and adding stabilizing agent. However, there will be no lead pellet removal, so this alternative scores lower than Alternative 4. This alternative scores the same as Alternative 2.	1.00	Reduction in mobility as a result of disposal facility management practices, removal of lead pellets, and potentially by adding stabilizing agent at land disposal facility. This alternatives scores the highest.	1.33
Volume:	1.33	There will be no reduction in volume.	1.00	There will be no reduction in volume.	1.00	There will be no reduction in volume.	1.00	On-Site reduction in volume by removal of lead pellets.	1.33
5. Short-term Effectiveness									
Potential risk to the community[2]:	1.33	All the alternatives have a baseline potential risk as a result of the generation of fugitive dust. Otherwise, there is no additional risk to the community since the soil is not transported off-Site:	1.33	In addition to fugitive dust emissions, there is potential risk to the community since untreated-impacted soil is transported off-Site through public areas. As many as 3,800 truck loads of impacted soil will leave the Site. This alternative poses the most risk of the four alternatives to the community since the impacted-soil will be untreated during transport.	0.33	In addition to fugitive dust emissions, there is potential risk to the community since treated-impacted soil is transported off-Site through public areas. As many as 4,210 truck loads of treated soil will leave the Site.	0.67	In addition to fugitive dust emissions, there is potential risk to the community since the soil is transported off-Site through public areas. However, a reduced volume compared to Alternatives 2 and 3 will be transported through the community since some treated soil will remain on-Site. As many as 2,160 truck loads of treated soil will leave the Site.	1.00
Potential Risk to workers:	1.33	Requires standard precautions for worker safety while working with heavy equipment.	1.33	Requires standard precautions for worker safety while working with heavy equipment. Also requires precautions associated with the staging of over 3,800 trucks on public streets, the movement of the trucks onto the Site, loading of the trucks, and departure of the trucks.	1.00	Requires all the precautions of Alternative 2 plus additional trucks for transport and additional precautions associated with mixing stabilizing agents into the soil.	0.67	Requires the most precautions due to the construction of the treatment system (likely also including a crane), the handling of contaminated water in the treatment process, and the physical process associated with separating lead pellets from soil.	0.33
Potential Risk to environment:	1.33	Requires standard on-Site precautions for environmental protection.	1.33	Requires standard on-Site precautions for environmental protection. Also includes the need for standard precautions for off-Site transport of impacted soil.	1.00	Requires standard on-Site precautions for environmental protection plus additional precautions for handling stabilizing agents. Also includes the need for standard precautions for off-Site transport of impacted soil.	0.67	Requires standard on-Site precautions for environmental protection plus additional precautions for handling stabilizing agents and most importantly, for handling treatment system waste water. Also includes the need for standard precautions for off-Site transport of impacted soil.	0.33

TABLE 4-1

Shooting Range
Summary Evaluation of Retained Alternatives
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Criteria	Maximum Possible Score	Alternative 1 On-Site Containment In AOC Engineered Unit or CAMU		Alternative 2 Off-Site Disposal of All Soil with No Treatment		Alternative 3 On-Site Stabilization and Off-Site Disposal of All Soil		Approach 4 Wet Sieve / Gravity Separate to Remove Lead Pellets, On-Site Retention and Offsite Disposal	
		Comment	Score	Comment	Score	Comment	Score	Comment	Score
6. Implementability	4	The technology is commercially available and has been demonstrated to be effective. The materials are easily attainable. Standard construction equipment will be used, except for in Remediation Area 2 (RA2), where standard shooting range high-vacuum equipment will be used.	4	The technology is commercially available and has been demonstrated to be effective. The materials are easily attainable. Standard construction equipment will be used, except for in RA2, where standard shooting range high vacuum equipment will be used. Loading, and transport is straight forward, but it is estimated that over 3,800 truck loads of soil will be removed from the Site, which will require considerable administration and services. Requires selection of reliable transport companies and disposal facilities.	3	The technology is commercially available and has been demonstrated to be effective. The materials are available. Standard construction equipment will be used, except for in RA2, where standard shooting range high vacuum equipment will be used. Loading, and transport is straight forward, but it is estimated that over 4,000 truck loads of soil maybe removed from the Site, which will require considerable administration and services. Requires selection of effective stabilizing agents, and reliable transport companies and disposal facilities. Because this alternative requires the selection of an effective stabilizing agent, it scores lower than Alternative 2.	2	The technology has limited commercial availability and has limited reported effectiveness. This alternative would be the most unpredictable in terms of effectiveness. None standard treatment equipment would need to be mobilized to the Site and constructed into a treatment system. For excavation, standard construction equipment will be used, except for in RA2, where standard shooting range high vacuum equipment will be used. Loading, and transport is straight forward, but it is estimated that over 2,000 truck loads of soil maybe removed from the Site, which will require considerable administration and services. Requires selection of an effective wet sieving and gravity separation contractor as well as reliable transport companies and disposal facilities.	1
7. Cost	4	The least expensive alternative	4	As much as 3 to 4 times as expensive as Alternative 1. Similar in cost to Alternative 4, but without the high uncertainty regarding the effort to achieve cleanup.	3	Potentially the most expensive alternative.	1	As much as 3 to 4 times as expensive as Alternative 1. Similar in cost to Alternative 4, but with much higher uncertainty regarding the effort to achieve cleanup.	2

TABLE 4-1

Shooting Range
Summary Evaluation of Retained Alternatives
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Criteria	Maximum Possible Score	Alternative 1 On-Site Containment In AOC Engineered Unit or CAMU		Alternative 2 Off-Site Disposal of All Soil with No Treatment		Alternative 3 On-Site Stabilization and Off-Site Disposal of All Soil		Approach 4 Wet Sieve / Gravity Separate to Remove Lead Pellets, On-Site Retention and Offsite Disposal	
		Comment	Score	Comment	Score	Comment	Score	Comment	Score
8. Agency Acceptance	4	Based on DTSC guidance, this alternative is considered a proven technology and appropriate for remediation of metal impacted soil if it can be demonstrated that the alternative is protective of human health and the environment; able to achieve the cleanup objectives and goals; and able to control or remediated sources of the release, all of which have been demonstrated in the Remedial Investigation / Feasibility Study (RI/FS) and this Supplemental FS. This Site also has polynuclear aromatic hydrocarbons (PAHs), which although are not metals, have similar fate and transport characteristics as metals since the PAHs appear to be bound within the clay target debris.	4	Based on DTSC guidance, this alternative is considered a proven technology and appropriate for remediation of metal impacted soil if it can be demonstrated that the alternative is protective of human health and the environment; able to achieve the cleanup objectives and goals; and able to control or remediated sources of the release, all of which have been demonstrated in the RI/FS and this Supplemental FS. This Site also has PAHs, which although are not metals, have similar fate and transport characteristics as metals since the PAHs appear to be bound within the clay target debris. Because this alternative is more expensive than Alternative 1, it is assumed to have less agency acceptance than Alternative 1.	3	Agency acceptance should be straight forward, but perhaps less certain than Alternatives 1 and 2 which are presented in DTSC guidance as proven technologies for remediation of metals in soil.	2	Because this alternative has the greatest amount of uncertainty regarding implementability, it is considered to have the least amount of agency acceptance.	1
9. Community Acceptance	4	At this time, the community acceptance of any of the alternatives is unknown. Public review and comment will happen in the future. For this reason, all the retained alternatives will be given a 0 score for this criteria.	0	At this time, the community acceptance of any of the alternatives is unknown. Public review and comment will happen in the future. For this reason, all the retained alternatives will be given a zero score for this criteria.	0	At this time, the community acceptance of any of the alternatives is unknown. Public review and comment will happen in the future. For this reason, all the retained alternatives will be given a zero score for this criteria.	0	At this time, the community acceptance of any of the alternatives is unknown. Public review and comment will happen in the future. For this reason, all the retained alternatives will be given a zero score for this criteria.	0
Totals:	36.00		28.98		25.77		21.32		18.21

Notes:
AOC = Area of Contamination
CAMU = corrective action management unit
1 Maximum possible score is 2 for onsite and 2 for offsite for a total potential score of 4.
2 Maximum possible score equals 4 total points divided by 3 criteria which equals approximately 1.33 per criteria.

TABLE 4-2

Wood Debris Pile
Summary Evaluation of Retained Alternatives
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Criteria	Maximum Possible Score	Alternative 1 Excavation and Offsite Disposal		Alternative 2 Excavation, Coarse Separation, and Offsite Disposal	
		Comment	Score	Comment	Score
1. Overall Protection of Human Health and the Environment	2	Both alternatives are considered to be effective at reducing the potential for human exposure and ecological exposure to the wood debris, and thus is considered protective of human health and the environment. Wood debris would not be available for direct contact to humans or wildlife. Since PCOCs within the wood debris would have been removed, groundwater would be protected.	2	See Alternative 1	2
2. Compliance with Applicable or relevant and appropriate requirements (ARARs)	2	All ARARs would be met.	2	See Alternative 1	2
3. Long-term Effectiveness and Performance	2	Both alternatives are considered to be effective at maintaining the protection of human health and the environment after response objectives have been met. The wood debris would no longer be onsite, therefore there would be no direct contact to humans and wildlife, and groundwater would be protected from removal of the PCOCs that may exist within the wood debris. For both alternatives, off-Site effectiveness dependent on disposal facility management practices.	2	See Alternative 1	2

TABLE 4-2

Wood Debris Pile
Summary Evaluation of Retained Alternatives
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Criteria	Maximum Possible Score	Alternative 1 Excavation and Offsite Disposal		Alternative 2 Excavation, Coarse Separation, and Offsite Disposal	
		Comment	Score	Comment	Score
4. Reduction of Toxicity, Mobility, and Volume Through Treatment	2	There would be a reduction in the toxicity, mobility and volume of the PCOCs at the Site. However, PCOCs would remain at the selected disposal facility into the foreseeable future. The PCOCs will not be destroyed and their toxicity may not be reduced significantly at the disposal facility. The selected landfill would however have in place engineering and related controls to address this risk.	1	Similar to Alternaitve 1, except there would be some reduction in volume of waste material since coarse separation will occur.	2
5. Short-term Effectiveness	2	This alternative would be effective, but measures will be required to mitigate fugitive dust generation and have propertly tranined personnel to handle the treated wood. As many as 450 truck loads of wood would be transported offsite, which would potentially create adverse traffic and air pollution conditions.	1	Similar to Alternaitve 1, however there is the potential that the bulk of the wood could be taken to a local landfill after course separation.	2

TABLE 4-2

Wood Debris Pile
Summary Evaluation of Retained Alternatives
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Criteria	Maximum Possible Score	Alternative 1 Excavation and Offsite Disposal		Alternative 2 Excavation, Coarse Separation, and Offsite Disposal	
		Comment	Score	Comment	Score
6. Implementability	2	Excavation, offsite transport and disposal are all technically feasible. Traffic control to facilitate the movement of trucks onto and off of the Site is anticipated to be straight forward. Because the Wood Debris Pile is located in the corner of the parcel at an intersection which provides access to the nearby quarry, access for soil loading will be challenging, but feasible. The required services to implement this alternative would include traffic control design and implementation, coordination with the near by quarry, excavation and potentially grading type services, certified hazardous waste haulers, and landfill availability. All services would be reasonably available.	2	Similar to Wood Debris Pile Alternative 1, except for the additional effort to conduct coarse separation of treated wood and the additional waste profiling. There is some uncertainty regarding the actual volume of treated wood.	1
7. Cost	2	The more expensive alternative.	1	The least expensive alternative	2
8. Agency Acceptance	2	It is assumed the DEH and other agencies will welcome and approve of compliance with the DEH Official Notice dated March 24, 1998 and Administrative Order dated 1998 May 14, 1998 has occurred.	2	Similar to Alterntive 1.	2

TABLE 4-2

Wood Debris Pile
Summary Evaluation of Retained Alternatives
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Criteria	Maximum Possible Score	Alternative 1 Excavation and Offsite Disposal		Alternative 2 Excavation, Coarse Separation, and Offsite Disposal	
		Comment	Score	Comment	Score
9. Community Acceptance	2	At this time, the community acceptance of any of the alternatives is unknown. Public review and comment will happen in the future. For this reason, all the retained alternatives will be given a 0 score for this criteria.	0	At this time, the community acceptance of any of the alternatives is unknown. Public review and comment will happen in the future. For this reason, all the retained alternatives will be given a zero score for this criteria.	0
Totals:	18.00		13.00		15.00

Notes:
AOC = Area of Contamination
CAMU = corrective action management unit

APPENDIX A

TRC Remedial Investigation / Feasibility Study,
Selected Tables and Figures

TRC

Customer-Focused Solutions

REMEDIAL INVESTIGATION / FEASIBILITY STUDY

November 21, 2005

Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California
Voluntary Assistance Program No. H39635-001

TRC Project No. 60058302

Prepared For:

Flat Rock Land Company, LLC
1903 Wright Place, Suite 220
Carlsbad, CA 92008

By:

Gary J. McCue, for
Todd A. Wirths, RG 7588
Project Geologist

Gary J. McCue
Gary J. McCue, RG 5886, CHG 434
Principal Hydrogeologist

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CERTIFIED HYDROGEOLOGIST
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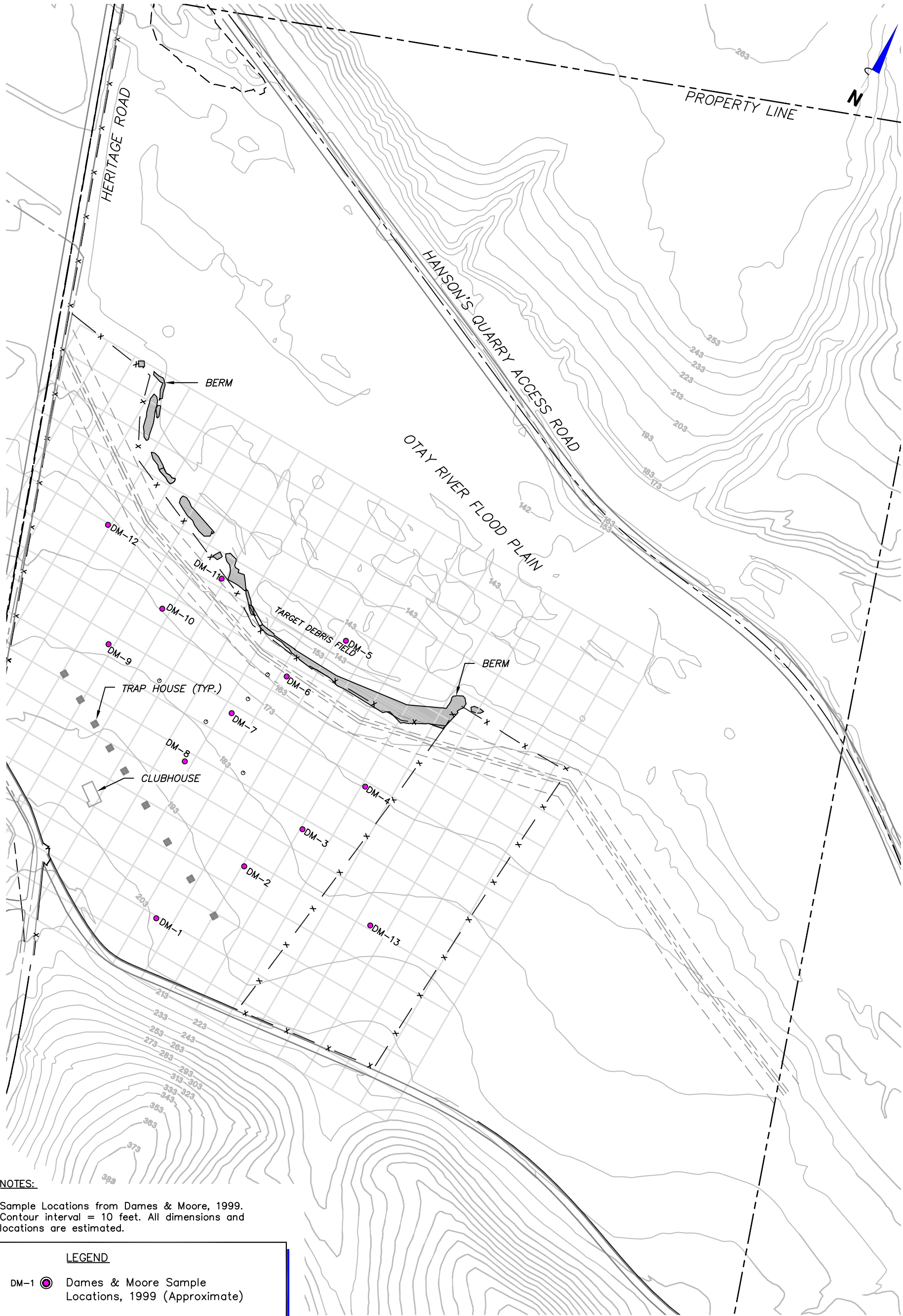
San Diego, California



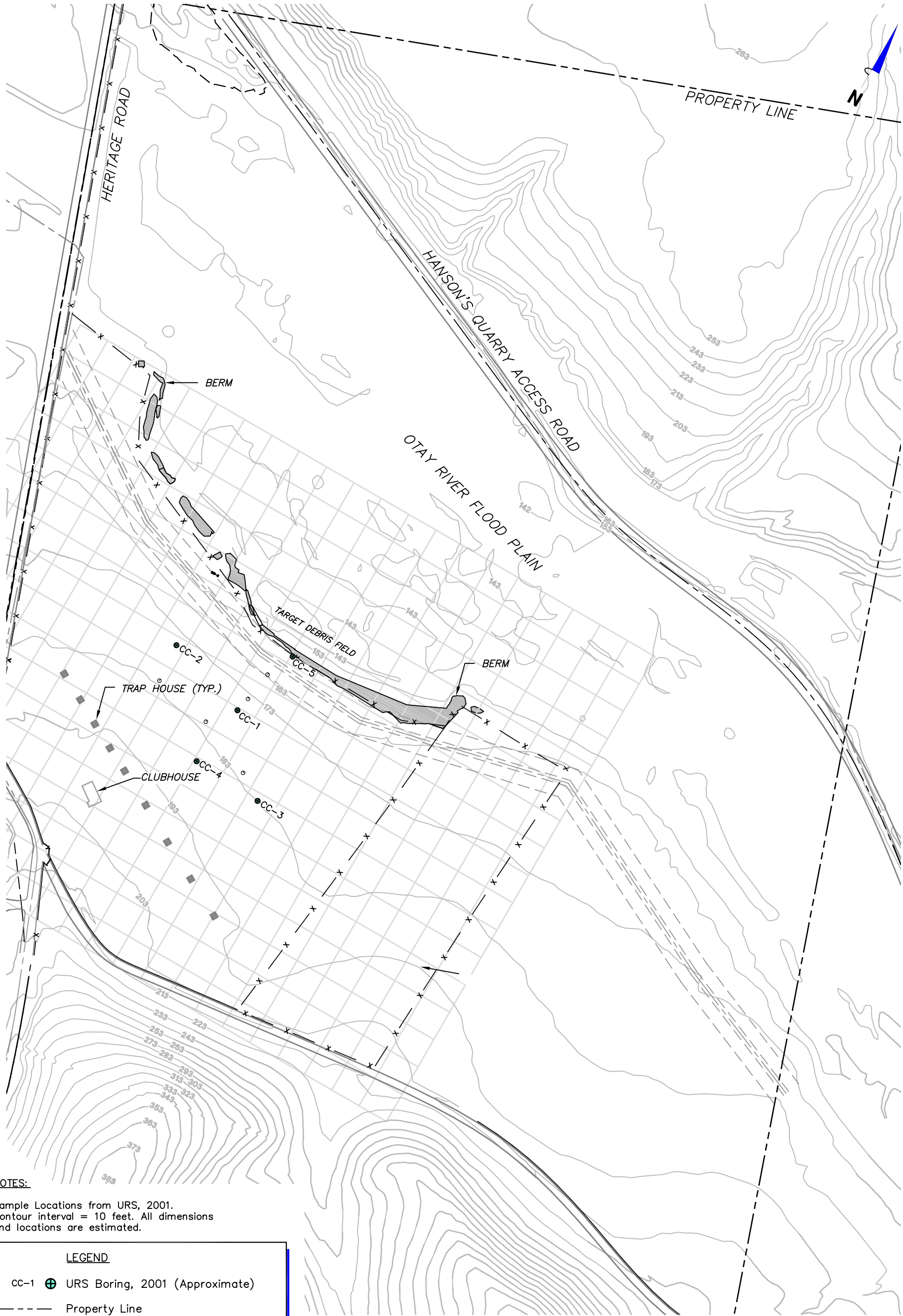
SOIL SAMPLE LOCATIONS
DAMES & MOORE, 1999

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 1-3

TRC

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-Sample History.DWG; Soil Sample-DM, Jun 06, 2006-8:59am ledge



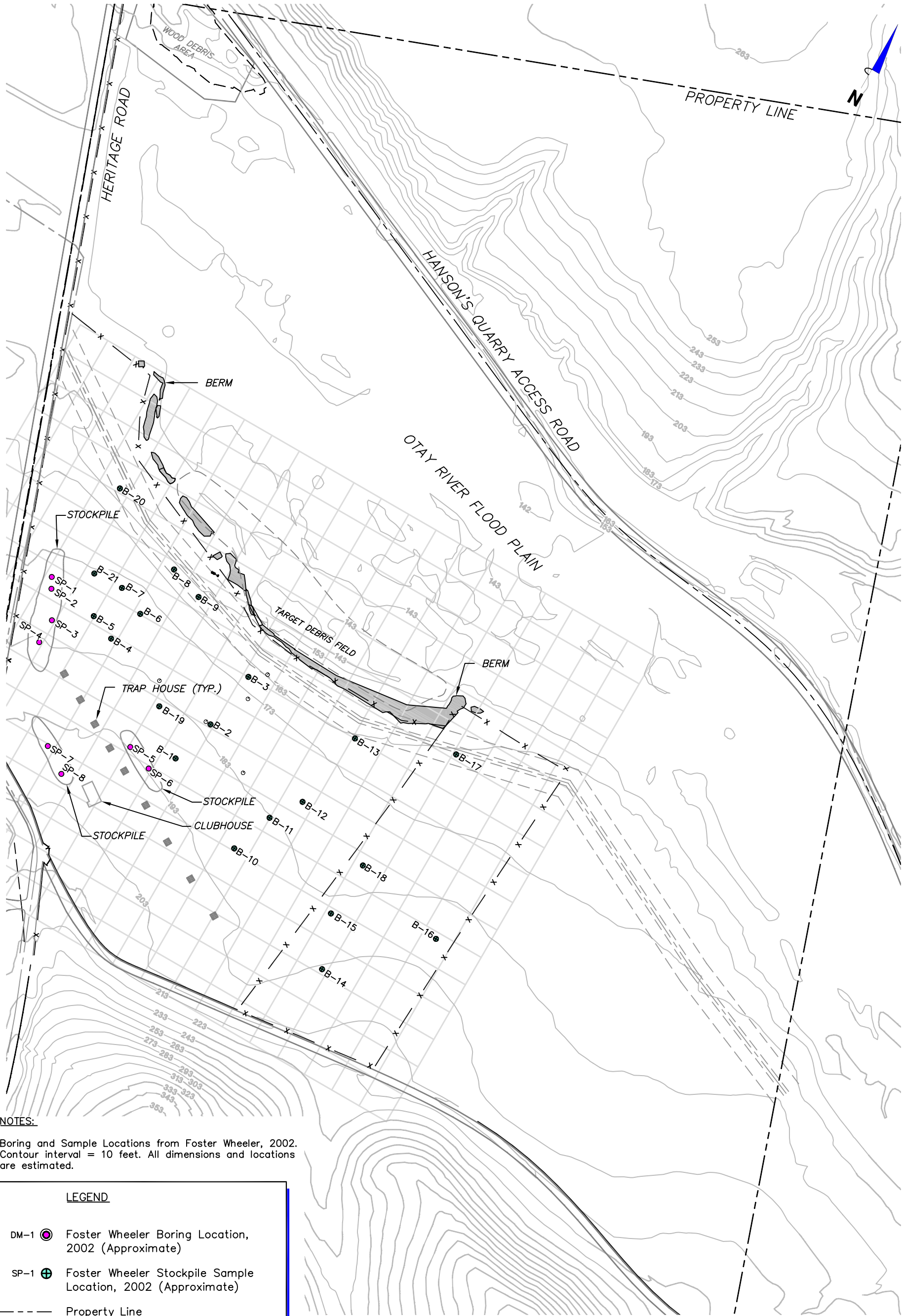
BORING LOCATIONS
URS, 2001

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

TRC

FIGURE 1-4

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-Sample History.DWG; Soil Sample-URS, Jun 06, 2006-9:00am ledge



NOTES:

Boring and Sample Locations from Foster Wheeler, 2002. Contour interval = 10 feet. All dimensions and locations are estimated.

LEGEND

DM-1	Foster Wheeler Boring Location, 2002 (Approximate)
SP-1	Foster Wheeler Stockpile Sample Location, 2002 (Approximate)
	Property Line
x	Fence
223	Elevation Contour

TRC

SCALE (FEET)

0 300 600

BORING AND SAMPLE LOCATIONS FOSTER WHEELER, 2002

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 1-5

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-Sample History.DWG; Soil Sample-FW, Jun 06, 2006-9:01am ledge

WOOD DEBRIS AREA

HERITAGE ROAD

PROPERTY LINE

N

HANSON'S QUARRY ACCESS ROAD

OTAY RIVER FLOOD PLAIN

TARGET DEBRIS FIELD

BERM (TYP.)

BERM (TYP.)

TARGET DEBRIS PILE

CLUBHOUSE

MEDIAN

TRAP HOUSE (TYP.)

ESTIMATED EXTENT OF WHITE MATERIAL

DIRT ROAD

MW-1 MW-5 MW-6 MW-7 MW-8 RMW-1,2,3 AW-1 AW-2 AW-3

NOTES:

All dimensions and locations are estimated.

LEGEND

MW-1	Monitoring Well
AW-1	Production Well
HAG-10	Boring Location
	Property Line
x	Fence

SCALE (FEET)

0 300 600

TRC

SHOOTING RANGE FIELD, SEWER, BERM, OTAY RIVER FLOOD PLAIN, TARGET DEBRIS PILE AND MEDIAN BORING LOCATIONS

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 2-1a

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-BORINGS.DWG; BORINGS-C, Jun 06, 2006-9:26am LRE

LEGEND

MW-1	Monitoring Well
AW-1	Production Well
HAG-10	Boring Location
	Property Line
x	Fence

NOTES:

All dimensions and locations are estimated.

SCALE (FEET)

0 300 600

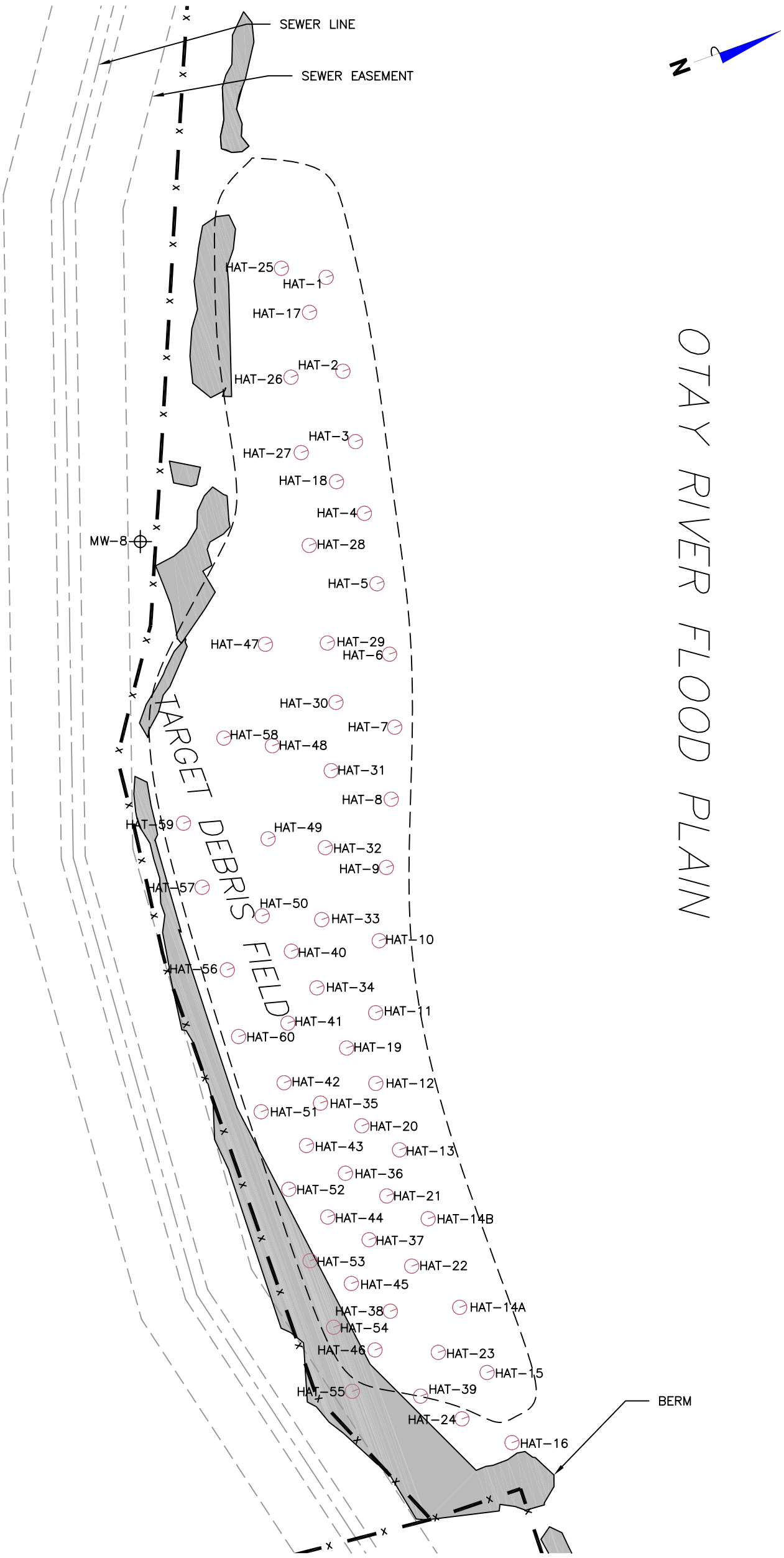
TRC

SHOOTING RANGE FIELD, SEWER, BERM, OTAY RIVER FLOOD PLAIN, TARGET DEBRIS PILE AND MEDIAN BORING LOCATIONS

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 2-1b

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-LEAD_PELLETS-v02.DWG; Impacted Soil WP 2-1b, Jun 06, 2006-9:21am ledge



NOTES:

All dimensions and locations are estimated.

LEGEND

MW-1 Monitoring Well

HAT-33 Boring Location

Fence

SCALE (FEET)

0 100 200

TRC

TARGET DEBRIS FIELD
BORING LOCATIONS

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 2-2

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-LEAD_tdf.DWG Jun 06, 2006 - 9:28am BM

HERITAGE ROAD

OTAY RIVER FLOOD PLAIN

N

TRAP HOUSE (TYP.)

CLUBHOUSE

MEDIAN

T-A through D

TARGET DEBRIS PILE

SEWER EASEMENT

BERM

SEWER LINE

TF-172
TF-193
TF-194
TF-215
TF-174
TF-195
MW-7
TF-196
TF-197
TF-218
TF-198
TF-240
TF-199
TF-241
TF-200
TF-221
TF-201
TF-263
MW-6
TF-202
TF-161
TF-223
TF-244
TF-265
TF-203
TF-266
TF-204
TF-225
TF-246
TF-267
TF-205
TF-226
TF-247
TE-1
TE-2
TE-3
MW-5
AW-1
AW-2
TF-355

TS-1
TS-2
TS-3
TS-4
TS-5
TF-89
TS-6
TS-7
TS-8
TS-9
MW-8
TB-11
TF-114
TS-10
TS-11
TS-12
TS-13
TS-14
TS-15
TN-1
TN-2
TN-3
TB-17
TF-146 QA/QC
TF-141
TS-16
TB-18
TS-17
TS-18
TS-19
TS-20
TS-21
TS-22

NOTES:

All dimensions and locations are estimated.

LEGEND

MW-1	Monitoring Well
AW-1	Production Well
	Property Line
x	Fence
TF-355	Trench Location

SCALE (FEET)

0 200 400

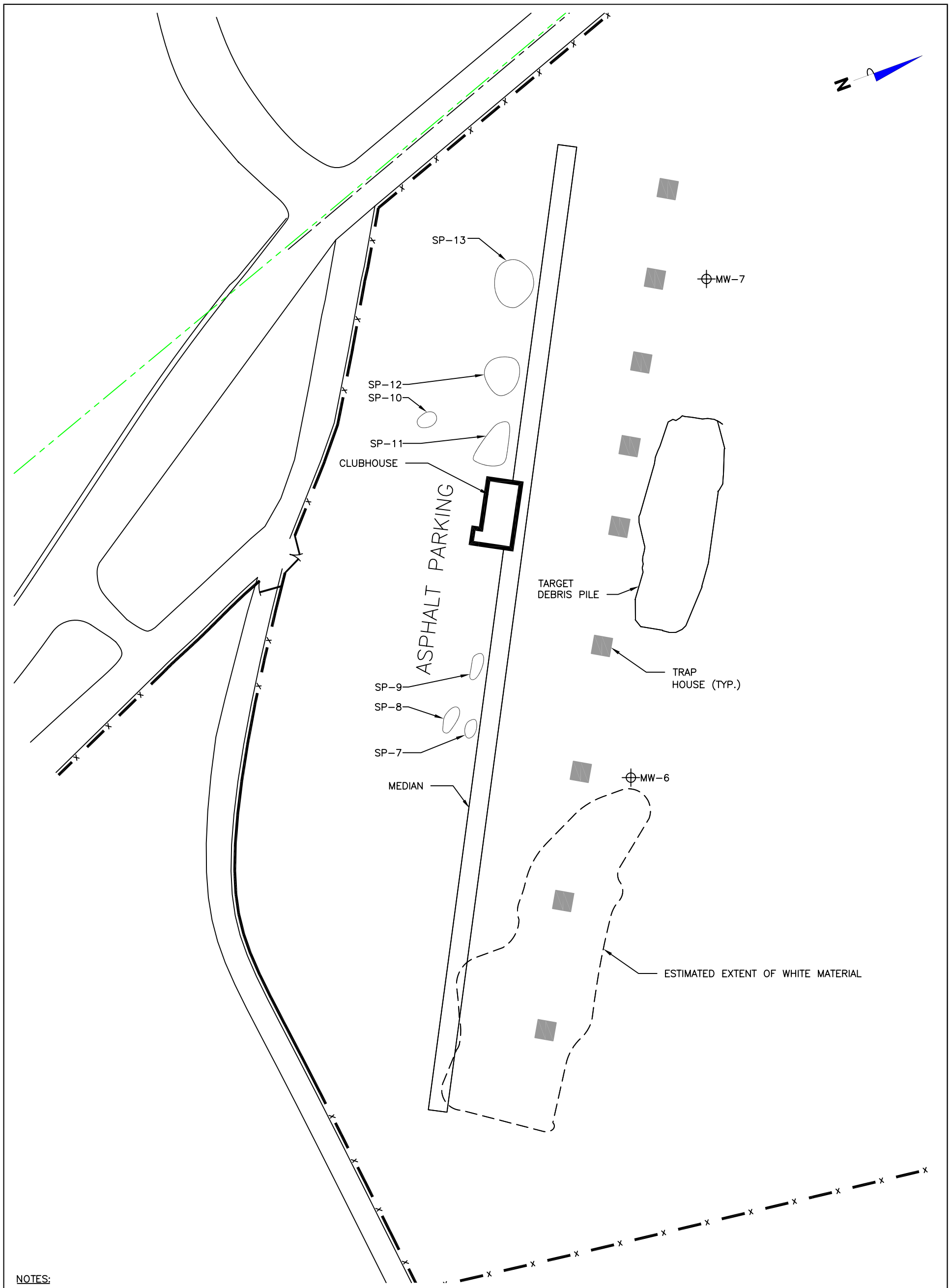
TRC

SHOOTING RANGE FIELD AND BERM TRENCH LOCATIONS

Vicinity of
5350 Heritage Road
Chula Vista, California

FIGURE 2-3

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-TRENCHES.DWG Jun 06, 2006 - 9:31am BM



NOTES:

All dimensions and locations are estimated.

LEGEND

Property Line

Fence

SP-7 Stockpile

SCALE (FEET)

0 100 200

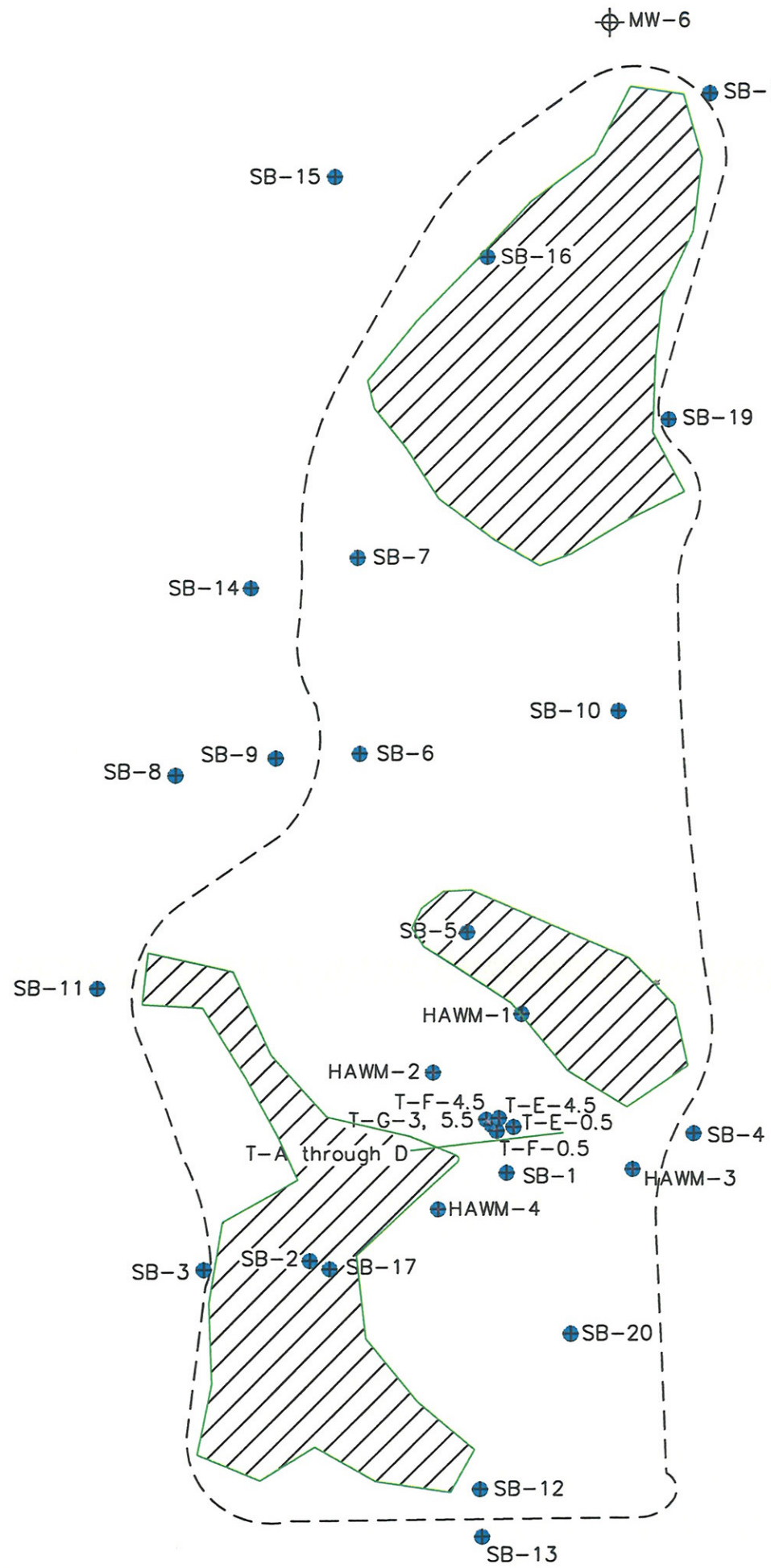
TRC

STOCKPILE LOCATIONS
OTAY SKEET
AND TRAP RANGE

5350 Heritage Road
Chula Vista, California

FIGURE 2-4

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-STOCKPILE.DWG; Stock Pile, Jun 06, 2006-9:32am LRE



NOTES:

All dimensions and locations are estimated.

LEGEND

MW-6 Monitoring Well Location

MW-3A Boring Location

Trench (T-A through D)

Surface Exposures of White Material

SCALE (FEET)

0 40 80

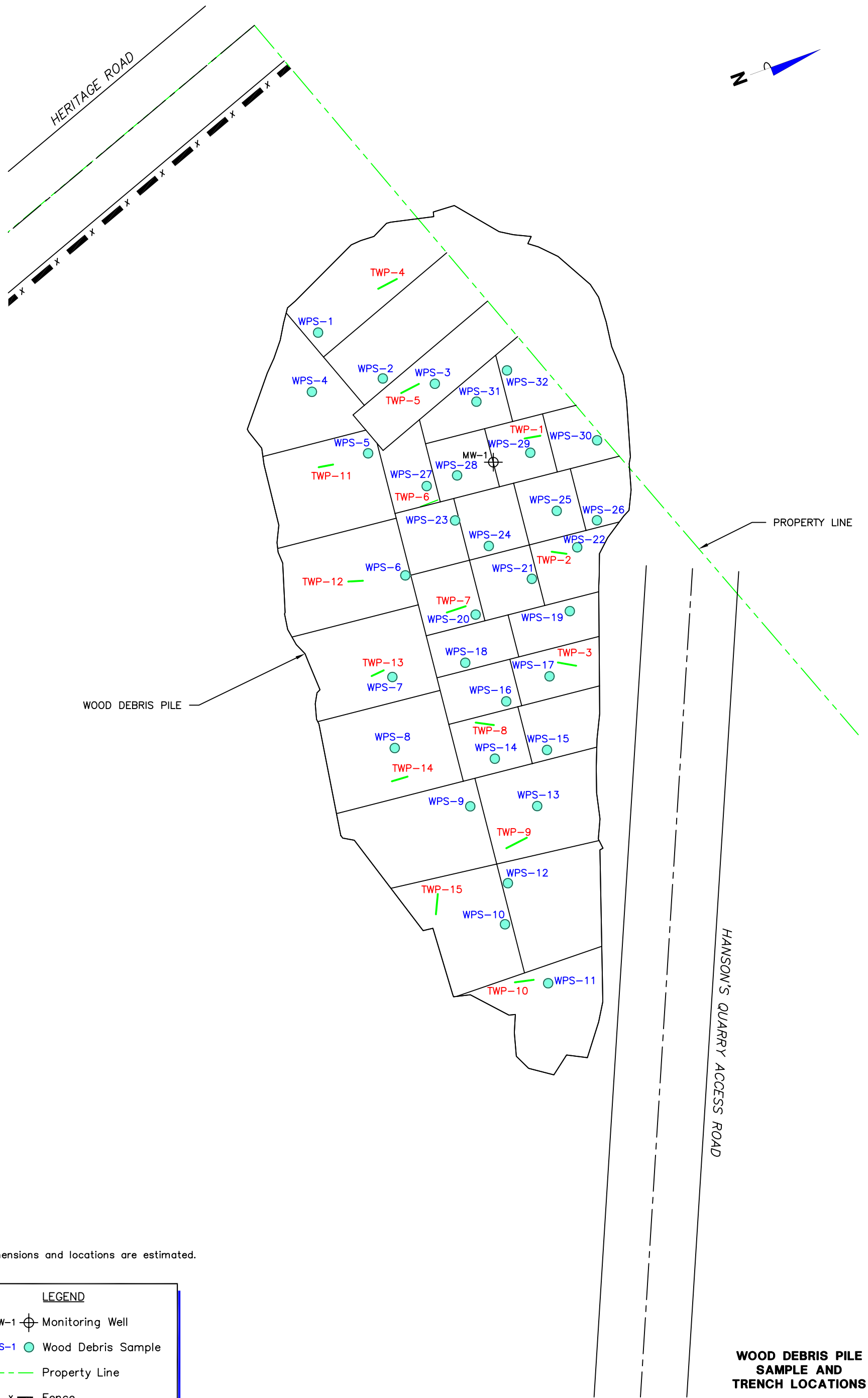
TRC

AREA OF WHITE MATERIAL

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 2-5

N:\PROJECTS\Otay Trap and Skeet\Site Assessment\Graphics\OTMSR-SITEPLAN.DWG Nov 17, 2005 - 2:49pm BM



NOTES:

All dimensions and locations are estimated.

LEGEND

MW-1	Monitoring Well
WPS-1	Wood Debris Sample
	Property Line
x	Fence
TWP-1	Trench Location

SCALE (FEET)

0 50

WOOD DEBRIS PILE SAMPLE AND TRENCH LOCATIONS

Vicinity of
5350 Heritage Road
Chula Vista, California

TRC

FIGURE 2-7

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-TRENCHES.DWG Jun 06, 2006 - 9:50am LRE

Table 1-1
Historical Soil Sample Results
Dames & Moore, 1999
Former Otay Skeet and Trap Range

Boring I.D.	**Sample Depth** (inches)	**Pellet Count**
DM-1	3	3
DM-2	3	19
	6	3
	9	3
DM-3	3	63
	6	3
	9	11
DM-4	3	99
	6	7
	9	38
DM-5	3	18
DM-6	3	237
	6	120
	9	35
	12	37
	15	5
DM-7	3	97
	6	38
	9	37
	12	34
	15	11
DM-8	3	10
	6	12
	9	15
	12	9
DM-9	3	19
	6	4
	9	10
DM-10	3	42
	6	5
	9	1
DM-11	3	68
	6	42
	9	18
DM-12	3	0
DM-13	3	39

TABLE 1-2

Historical Soil Sample Results
URS, 2001
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Sample I.D.	Sample Depth feet below grade	Pellet Count	Total Lead mg/kg	Acenaphthene µg/kg	Diethyl-phthalate µg/kg	Phenanthrene µg/kg	Di-n-butyl-phthalate µg/kg	Flouranthene µg/kg	Pyrene µg/kg	Benzo(a) anthracene µg/kg	Chrysene µg/kg	Bis(2-ethylhexyl) phthalate µg/kg	Benzo(b) flouranthene µg/kg	Benzo(k) flouranthene µg/kg	Benzo(a) pyrene µg/kg	Indenno (1,2,3-cd)pyrene µg/kg	Dibenz(a,h) anthracene µg/kg	Benzo(g,h,l) perylene µg/kg
Core 1	0.5	28	816	ND<20	ND<20	ND<20	ND<40	23	27	22	24	87	33	24	33	ND<30	ND<40	ND<40
	6	ND	10	ND<20	ND<20	ND<20	97	ND<20	ND<20	ND<20	ND<20	135	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
	10	ND	ND	ND<20	ND<20	ND<20	41	ND<20	ND<20	ND<20	ND<20	55	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
Core 2	0.5	21	613	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	73	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
	5	ND	10	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	ND<45	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
	10	ND	ND	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	ND<45	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
Core 3	0.5	13	546	ND<20	ND<20	ND<20	40	ND<20	ND<20	ND<20	ND<20	66	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
	5	ND	15	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	ND<45	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
	10	ND	ND	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	ND<45	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
Core 4	0.5	8	876	23	29	85	55	189	228	182	217	93	290	252	333	206	62	217
	4	ND	ND	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	ND<45	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
	10	ND	ND	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	ND<45	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
Core 5	0.5	5	44	ND<20	ND<20	ND<20	66	ND<20	ND<20	ND<20	ND<20	81	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
	5	ND	ND	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	ND<45	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40
	10	ND	ND	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	ND<45	ND<20	ND<20	ND<20	ND<30	ND<40	ND<40

Notes: mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram

TABLE 1-3

Historical Soil Sample Results
Foster Wheeler, 2002
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road, Chula Vista, California

Boring I.D.	**Pellet Count** Depth 0"-3"	**Pellet Count** Depth 3"-6"	**Total Lead, mg/kg** Depth 3"-6"	**TCLP Soluble Lead, mg/L** Depth 3"-6"	**WET Soluble Lead, mg/L** Depth 3"-6"	**Pellet Count** Depth 6"-9"	**Pellet Count** Depth 9"-12"	**Total Pellet Count** Depth 6"-9"	**TCLP Soluble Lead, mg/L** Depth 9"-12"	**WET Soluble Lead, mg/L** Depth 9"-12"
B-1	1	0	13.8	--	--	1	0	10.5	--	--
B-2	52	46	1270	51.6	--	13	6	79.6	--	4.4
B-3	42	158	1350	4.3	69.8	52	1	78.8	--	3.4
B-4	23	12	429	ND<0.5	26.6	4	0	36.9	--	--
B-5	5	2	32.7	--	--	1	0	8.6	--	--
B-6	83	86	561	2.5	66.5	11	0	36.0	--	--
B-7	6	0	29.6	--	--	0	0	10.9	--	--
B-8	0	0	16.9	--	--	0	2	8.7	--	--
B-9	28	4	141	ND<0.5	8.8	9	0	17.1	--	--
B-10	4	1	26.1	--	--	0	0	11.6	--	--
B-11	49	35	449	ND<0.5	25.8	2	2	66.6	--	2.1
B-12	31	19	495	ND<0.5	22.2	3	7	117	ND<0.5	2.6
B-13	0	4	31.2	--	--	1	0	10.3	--	--
B-14	3	3	292	ND<0.5	1.3	0	0	13.2	--	--
B-15	26	11	272	ND<0.5	10.0	5	0	28.1	--	--
B-16	2	1	38.9	--	--	0	0	13.3	--	--
B-17	0	0	15.7	--	--	0	0	12.0	--	--
B-18	8	1	195	ND<0.5	6.1	0	0	11.1	--	--
B-19	21	0	--	--	--	0	0	--	--	--
B-20	0	0	--	--	--	0	0	--	--	--
B-21	2	0	--	--	--	0	0	--	--	--

Notes: Only 3"-6" and 9"-12" samples from locations B-1 to B-18 sent for laboratory ananlyses.

TCLP = Toxicity Charteristic Leaching Procedure
WET = waste extraction test
-- = not analyzed
mg/kg = milligrams per kilogram
mg/L = milligrams per liter

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Berm	HAB-1A	HAB-1A-0	0	359.3	NP	
Berm	HAB-1A	HAB-1A-1	1	380.4	NP	
Berm	HAB-1A	HAB-1A-2	2	205.1	NP	
Berm	HAB-1B	HAB-1B-0	0	298.4	NP	
Berm	HAB-1B	HAB-1B-1	1	299.4	NP	
Berm	HAB-1B	HAB-1B-2	2	219.4	NP	
Berm	HAB-2	HAB-2-0	0	125.7	NP	
Berm	HAB-2	HAB-2-0.5	0.5	246.7	NP	
Berm	HAB-2	HAB-2-1	1	213	NP	
Berm	HAB-2	HAB-2-1.5	1.5	157.6	NP	
Berm	HAB-2	HAB-2-2	2	196.6	NP	
Berm	HAB-2A	HAB-2A-0	0	114.4	NP	
Berm	HAB-2A	HAB-2A-1	1	108.3	NP	
Berm	HAB-2A	HAB-2A-1 DUP	1	100.3	NP	
Berm	HAB-2A	HAB-2A-2	2	221.5	NP	
Berm	HAB-2B	HAB-2B-0	0	230.3	NP	
Berm	HAB-2B	HAB-2B-1	1	222.6	NP	
Berm	HAB-3A	HAB-3A-0	0	229.9	NP	
Berm	HAB-3A	HAB-3A-1	1	266.2	NP	
Berm	HAB-3B	HAB-3B-0	0	116.8	NP	
Berm	HAB-3B	HAB-3B-1	1	283.8	NP	
Berm	HAB-3B	HAB-3B-2	2	111.7	NP	
Berm	HAB-4	HAB-4-0 DUP	0	184.3	NP	
Berm	HAB-4A	HAB-4A-0	0	110	NP	
Berm	HAB-4A	HAB-4A-0 DUP	0	117	NP	
Berm	HAB-4A	HAB-4A-1	1	221	NP	
Berm	HAB-4A	HAB-4A-2	2	185	NP	
Berm	HAB-4B	HAB-4B-0	0	181	NP	
Berm	HAB-4B	HAB-4B-1	1	134	NP	
Berm	HAB-4B	HAB-4B-2	2	162	NP	
Berm	HAB-5A	HAB-5A-0	0	79.9	NP	
Berm	HAB-5A	HAB-5A-1	1	467.1	NP	
Berm	HAB-5A	HAB-5A-2	2	422.9	NP	
Berm	HAB-5B	HAB-5B-0	0	358.1	NP	
Berm	HAB-5B	HAB-5B-1	1	436.5	NP	
Berm	HAB-5B	HAB-5B-2	2	458.2	NP	
Berm	HAB-6	HAB-6-0	0	103.5	NP	
Berm	HAB-6	HAB-6-0 DUP	0	90.9	NP	
Berm	HAB-6	HAB-6-0.5	0.5	221.9	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Berm	HAB-6	HAB-6-1	1	252.4	NP	
Berm	HAB-6	HAB-6-1.5	1.5	231.5	NP	
Berm	HAB-6	HAB-6-2	2	170.3	NP	
Berm	HAB-6	HAB-6-2.5	2.5	215	NP	
Berm	HAB-6A	HAB-6A-0	0	185	NP	
Berm	HAB-6A	HAB-6A-0 DUP	0	182	NP	
Berm	HAB-6A	HAB-6A-1	1	450	NP	
Berm	HAB-6A	HAB-6A-2	2	451	NP	
Berm	HAB-6B	HAB-6B-0	0	153	NP	
Berm	HAB-6B	HAB-6B-1	1	288	NP	
Berm	HAB-6B	HAB-6B-2	2	240	NP	
Berm	HAB-7	HAB-7-0	0	189.6	NP	
Berm	HAB-7	HAB-7-0.5	0.5	197.4	NP	
Berm	HAB-7	HAB-7-1	1	222.6	NP	
Berm	HAB-7	HAB-7-1.5	1.5	233	NP	
Berm	HAB-7	HAB-7-2	2	237	NP	
Berm	HAB-7	HAB-7-2.5	2.5	192	NP	
Berm	HAB-7A	HAB-7A-0	0	209.3	NP	
Berm	HAB-7A	HAB-7A-1	1	227.1	NP	
Berm	HAB-7A	HAB-7A-2	2	242.2	NP	
Berm	HAB-7B	HAB-7B-0	0	182.6	NP	
Berm	HAB-7B	HAB-7B-1	1	226.9	NP	
Berm	HAB-7B	HAB-7B-2	2	255.8	NP	
Berm	HAB-8	HAB-8-0	0	11938	NP	
Berm	HAB-8	HAB-8-0 DUP	0	90.8	NP	
Berm	HAB-8	HAB-8-0.5	0.5	199.9	NP	
Berm	HAB-8	HAB-8-1	1	220.5	NP	
Berm	HAB-8	HAB-8-1.5	1.5	244.2	NP	
Berm	HAB-8	HAB-8-2	2	223.6	NP	
Berm	HAB-8A	HAB-8A-0	0	125.2	NP	
Berm	HAB-8A	HAB-8A-1	1	101.9	NP	
Berm	HAB-8A	HAB-8A-1 DUP	1	100	NP	
Berm	HAB-8A	HAB-8A-2	2	484.3	NP	
Berm	HAB-8B	HAB-8B-0	0	475	NP	
Berm	HAB-8B	HAB-8B-1	1	455.3	NP	
Berm	HAB-8B	HAB-8B-2	2	410.7	NP	
Berm	HAB-9A	HAB-9A-0	0	146	NP	
Berm	HAB-9A	HAB-9A-1	1	300	NP	
Berm	HAB-9A	HAB-9A-2	2	216	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Berm	HAB-9B	HAB-9B-0	0	208	NP	
Berm	HAB-9B	HAB-9B-1	1	122	NP	
Berm	HAB-10	HAG-10-0 DUP	0	205.1	NP	
Berm	HAB-10	HAB-10-0	0	102.7	<0.1	3
Berm	HAB-10	HAB-10-0 DUP	0	108.2	NP	
Berm	HAB-10	HAB-10-0.5	0.5	187.8	NP	
Berm	HAB-10	HAB-10-1	1	194.5	NP	
Berm	HAB-10	HAB-10-1.5	1.5	175.1	NP	
Berm	HAB-10	HAB-10-2	2	176.6	NP	
Berm	HAB-10	HAB-10-2.5	2.5	165.9	NP	
Berm	HAB-10A	HAB-10A-0	0	126	<0.1	3
Berm	HAB-10A	HAB-10A-0 DUP	0	130	<0.1	2
Berm	HAB-10B	HAB-10B-0	0	405	<0.1	2
Berm	HAB-10B	HAB-10B-1	1	412	NP	
Berm	HAB-11A	HAB-11A-0	0	203	NP	
Berm	HAB-11A	HAB-11A-1	1	185	NP	
Berm	HAB-11A	HAB-11A-2	2	178	NP	
Berm	HAB-11B	HAB-11B-0	0	98	NP	
Berm	HAB-11B	HAB-11B-1	1	226	NP	
Berm	HAB-11B	HAB-11B-2	2	207	NP	
Berm	HAB-12	HAB-12-0	0	102.1	1.4	34
Berm	HAB-12	HAB-12-0 DUP	0	136.2	2.1	18
Berm	HAB-12	HAB-12-0.5	0.5	140.5	0.7	14
Berm	HAB-12	HAB-12-1	1	233.5	1	11
Berm	HAB-12	HAB-12-1.5	1.5	144.3	1.6	22
Berm	HAB-12	HAB-12-2	2	46	1	8
Berm	HAB-12	HAB-12-2.5	2.5	415.1	NP	
Berm	HAB-12A	HAB-12A-0	0	123	3.5	
Berm	HAB-12A	HAB-12A-0 DUP	0	113	<0.1	3
Berm	HAB-12A	HAB-12A-1	1	231.3	NP	
Berm	HAB-12B	HAB-12B-0	0	201	NP	
Berm	HAB-12B	HAB-12B-1	1	106.3	NP	
Berm	HAB-13	HAB-13-0	0	98.5	0.8	10
Berm	HAB-13	HAB-13-0.5	0.5	172.6	0.1	2
Berm	HAB-13	HAB-13-1	1	179.4	0.1	2
Berm	HAB-13	HAB-13-1.5	1.5	183.2	0.3	5
Berm	HAB-13	HAB-13-2	2	195	NP	
Berm	HAB-13A	HAB-13A-0	0	437	0.8	11
Berm	HAB-13A	HAB-13A-1	1	373	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Berm	HAB-13A	HAB-13A-2	2	239	<0.1	1
Berm	HAB-13B	HAB-13B-0	0	263	4.2	
Berm	HAB-13B	HAB-13B-1	1	405	1.5	
Berm	HAB-13B	HAB-13B-2	2	356	NP	
Berm	HAB-14	HAB-14-0	0	183.5	<0.1	7
Berm	HAB-14	HAB-14-0.5	0.5	252.2	<0.1	1
Berm	HAB-14	HAB-14-1	1	250.8	NP	
Berm	HAB-14	HAB-14-1.5	1.5	136.7	NP	
Berm	HAB-14	HAB-14-2	2	281.2	NP	
Berm	HAB-14	HAB-14-2.5	2.5	268.4	<0.1	1
Berm	HAB-14A	HAB-14A-0	0	96	1.2	
Berm	HAB-14A	HAB-14A-0 DUP	0	88	2.6	
Berm	HAB-14A	HAB-14A-1	1	140	NP	
Berm	HAB-14A	HAB-14A-2	2	161	<0.1	1
Berm	HAB-14B	HAB-14B-0	0	150	0.6	
Berm	HAB-14B	HAB-14B-1	1	232	<0.1	3
Berm	HAB-14B	HAB-14B-2	2	124	NP	
Berm	HAB-15	HAB-15-0	0	99.2	<0.1	1
Berm	HAB-15	HAB-15-0 DUP	0	125.9	NP	
Berm	HAB-15	HAB-15-0.5	0.5	231.3	NP	
Berm	HAB-15	HAB-15-1	1	212.7	NP	
Berm	HAB-15	HAB-15-1.5	1.5	203.8	NP	
Berm	HAB-15	HAB-15-2	2	211.7	NP	
Berm	HAB-15	HAB-15-2.5	2.5	211.6	NP	
Berm	HAB-15A	HAB-15A-0	0	110.5	NP	
Berm	HAB-15A	HAB-15A-1	1	429.1	NP	
Berm	HAB-15B	HAB-15B-0	0	114	NP	
Berm	HAB-15B	HAB-15B-1	1	426	NP	
Berm	HAB-15B	HAB-15B-2	2	437.9	NP	
Berm	HAB-16	HAB-16-0 DUP	0	213	NP	
Berm	HAB-16	HAB-16-0	0	198.2	<0.1	1
Berm	HAB-16	HAB-16-0.5	0.5	207.4	NP	
Berm	HAB-16	HAB-16-1	1	214.3	NP	
Berm	HAB-16	HAB-16-1.5	1.5	195.8	NP	
Berm	HAB-16	HAB-16-2	2	190.4	NP	
Berm	HAB-16	HAB-16-2.5	2.5	183.5	NP	
Berm	HAB-16A	HAB-16A-0	0	30.4	NP	
Berm	HAB-16A	HAB-16A-0 DUP	0	94.1	NP	
Berm	HAB-16A	HAB-16A-1	1	211	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Berm	HAB-16A	HAB-16A-2	2	183	NP	
Berm	HAB-16B	HAB-16B-0	0	103.6	NP	
Berm	HAB-16B	HAB-16B-1	1	242.5	NP	
Berm	HAB-17A	HAB-17A-0	0	93.3	NP	
Berm	HAB-17A	HAB-17A-1	1	199.9	NP	
Berm	HAB-17A	HAB-17A-2	2	229.4	NP	
Berm	HAB-17B	HAB-17B-0	0	185.7	NP	
Berm	HAB-17B	HAB-17B-1	1	231.3	NP	
Berm	HAB-17B	HAB-17B-2	2	125.8	NP	
Berm	HAB-18A	HAB-18A-0	0	191.5	NP	
Berm	HAB-18A	HAB-18A-1	1	157.7	NP	
Berm	HAB-18A	HAB-18A-2	2	275.8	NP	
Berm	HAB-18B	HAB-18B-0	0	79.5	NP	
Berm	HAB-18B	HAB-18B-1	1	162.7	NP	
Berm	HAB-18B	HAB-18B-2	2	320.7	NP	
Berm	HAB-19	HAB-19-0	0	76.5	NP	
Berm	HAB-19	HAB-19-0.5	0.5	80.6	NP	
Berm	HAB-19	HAB-19-0.5 DUP	0.5	80.3	NP	
Berm	HAB-19	HAB-19-1	1	182	NP	
Berm	HAB-19	HAB-19-1.5	1.5	155.1	NP	
Berm	HAB-19	HAB-19-2	2	171.5	NP	
Berm	HAB-19	HAB-19-2.5	2.5	166.5	NP	
Berm	HAB-19	HAB-19-3	3	229.3	NP	
Berm	HAB-19	HAB-19-3.5	3.5	222	NP	
Berm	HAB-19	HAB-19-4	4	158.8	NP	
Berm	HAB-19	HAB-19-4.5	4.5	146.6	NP	
Berm	HAB-19	HAB-19-5	5	166	NP	
Berm	HAB-19	HAB-19-5.5	5.5	166.6	NP	
Berm	HAB-19A	HAB-19A-0	0	199	NP	
Berm	HAB-19A	HAB-19A-1	1	248	NP	
Berm	HAB-19A	HAB-19A-2	2	266	NP	
Berm	HAB-19B	HAB-19B-0	0	238	NP	
Berm	HAB-19B	HAB-19B-1	1	229	NP	
Berm	HAB-19B	HAB-19B-2	2	289	NP	
Berm	HAB-20A	HAB-20A-0	0	108.8	NP	
Berm	HAB-20A	HAB-20A-1	1	157.2	NP	
Berm	HAB-20A	HAB-20A-2	2	199	NP	
Berm	HAB-20B	HAB-20B-0 DUP	0	120.7	NP	
Berm	HAB-20B	HAB-20B-0	0	120.8	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Berm	HAB-20B	HAB-20B-1	1	173	NP	
Berm	HAB-20B	HAB-20B-2	2	115.4	NP	
Berm	HAB-21A	HAB-21A-0	0	219	NP	
Berm	HAB-21A	HAB-21A-1	1	189.3	NP	
Berm	HAB-21A	HAB-21A-2	2	218.1	NP	
Berm	HAB-21B	HAB-21B-0	0	78	NP	
Berm	HAB-21B	HAB-21B-1	1	143	NP	
Berm	HAB-21B	HAB-21B-2	2	247	NP	
Berm	HAB-22A	HAB-22A-0	0	266	NP	
Berm	HAB-22A	HAB-22A-1	1	257	NP	
Berm	HAB-22A	HAB-22A-2	2	278	NP	
Berm	HAB-22B	HAB-22B-0 DUP	0	122	NP	
Berm	HAB-22B	HAB-22B-0	0	123	NP	
Berm	HAB-22B	HAB-22B-1	1	138	NP	
Berm	HAB-22B	HAB-22B-2	2	183	NP	
Berm	HAB-23A	HAB-23A-0	0	70.1	NP	
Berm	HAB-23A	HAB-23A-1	1	261.2	NP	
Berm	HAB-23A	HAB-23A-2	2	261.4	NP	
Berm	HAB-23B	HAB-23B-0	0	220.6	NP	
Berm	HAB-23B	HAB-23B-1	1	177.2	NP	
Berm	HAB-23B	HAB-23B-2	2	127.8	NP	
Berm	HAB-24A	HAB-24A-0	0	164.3	NP	
Berm	HAB-24A	HAB-24A-1	1	251	NP	
Berm	HAB-24A	HAB-24A-2	2	293.9	NP	
Berm	HAB-24B	HAB-24B-0	0	72.5	NP	
Berm	HAB-24B	HAB-24B-1	1	197	NP	
Berm	HAB-24B	HAB-24B-2	2	195.5	NP	
Berm	HAT-53	HAT-53-0	0	91	NP	
Berm	HAT-53	HAT-53-0.5	0.5	307	NP	
Berm	HAT-53	HAT-53-1	1	394	NP	
Berm	HAT-53	HAT-53-1.5	1.5	393	NP	
Berm	HAT-53	HAT-53-2	2	40	NP	
Berm	HAT-54	HAT-54-0	0	125.2	NP	
Berm	HAT-54	HAT-54-0.5 DUP	0.5	58.1	NP	
Berm	HAT-54	HAT-54-0.5	0.5	112.1	NP	
Berm	HAT-54	HAT-54-1	1	160.8	NP	
Berm	HAT-54	HAT-54-1.5	1.5	144.6	NP	
Berm	HAT-54	HAT-54-2	2	138.1	NP	
Berm	HAT-55	HAT-55-0	0	83.4	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Berm	HAT-55	HAT-55-0.5	0.5	169.5	NP	
Berm	HAT-55	HAT-55-1	1	223.2	NP	
Berm	HAT-55	HAT-55-1.5	1.5	199.9	NP	
Berm	TB-11	TB-11-0	0	308.7	<0.1	1
Berm	TB-11	TB-11-1	1	334.4	NP	
Berm	TB-11	TB-11-2	2	394.2	NP	
Berm	TB-11	TB-11-3	3	369	NP	
Berm	TB-11	TB-11-4	4	400.2	NP	
Berm	TB-11	TB-11-5 DUP	5	285.9	NP	
Berm	TB-11	TB-11-5	5	429.1	NP	
Berm	TB-17	TB-17-0	0	297	1.5	26
Berm	TB-17	TB-17-1	1	254.4	NP	
Berm	TB-17	TB-17-2	2	375.4	NP	
Berm	TB-17	TB-17-3	3	368.3	NP	
Berm	TB-17	TB-17-4	4	388.8	NP	
Berm	TB-17	TB-17-5	5	379.2	NP	
Berm	TB-17	TB-17-6	6	329.9	NP	
Berm	TB-17	TB-17-7	7	400.2	NP	
Berm	TB-17	TB-17-8	8	300.7	NP	
Berm	TB-17	TB-17-9	9	334.7	NP	
Berm	TB-17	TB-17-9 DUP	9	243.2	NP	
Berm	TB-18	TB-18-0	0	349.8	NP	
Berm	TB-18	TB-18-1	1	439.6	NP	
Berm	TB-18	TB-18-2	2	393.7	NP	
Berm	TB-18	TB-18-3	3	398.1	NP	
Berm	TB-18	TB-18-4	4	456.4	NP	
Berm	TB-18	TB-18-5	5	395.6	NP	
Berm	TB-18	TB-18-6	6	329.4	NP	
Berm	TB-18	TB-18-7	7	338.4	NP	
Median	HAG-1	HAG-1-0	0	178.6	NP	
Median	HAG-1	HAG-1-0.5	0.5	196.4	NP	
Median	HAG-1	HAG-1-1	1	209.9	NP	
Median	HAG-1	HAG-1-1.5	1.5	180.1	NP	
Median	HAG-1	HAG-1-2	2	185	NP	
Median	HAG-2	HAG-2-0 DUP	0	264.4	NP	
Median	HAG-2	HAG-2-0	0	33.2	NP	
Median	HAG-2	HAG-2-0.5	0.5	42.9	NP	
Median	HAG-2	HAG-2-1	1	58.6	NP	
Median	HAG-2	HAG-2-1.5	1.5	65.9	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Median	HAG-2	HAG-2-2	2	81.8	NP	
Median	HAG-3	HAG-3-0	0	51	NP	
Median	HAG-3	HAG-3-0.5	0.5	33.9	NP	
Median	HAG-3	HAG-3-1	1	34.5	NP	
Median	HAG-3	HAG-3-1.5	1.5	43	NP	
Median	HAG-3	HAG-3-2	2	42.7	NP	
Median	HAG-4	HAG-4-0	0	39.8	NP	
Median	HAG-4	HAG-4-0 DUP	0	237.7	NP	
Median	HAG-4	HAG-4-0.5	0.5	41.5	NP	
Median	HAG-4	HAG-4-1	1	36.6	NP	
Median	HAG-4	HAG-4-1.5	1.5	39.9	NP	
Median	HAG-4	HAG-4-2	2	93.9	NP	
Median	HAG-5	HAG-5-0	0	181.2	NP	
Median	HAG-5	HAG-5-0.5	0.5	124.9	NP	
Median	HAG-5	HAG-5-1	1	125.1	NP	
Median	HAG-6	HAG-6-0 DUP	0	279.4	NP	
Median	HAG-6	HAG-6-0	0	32.3	NP	
Median	HAG-6	HAG-6-0.5	0.5	30.6	NP	
Median	HAG-6	HAG-6-1	1	33.9	NP	
Median	HAG-6	HAG-6-1.5	1.5	40.7	NP	
Median	HAG-6	HAG-6-2	2	45.7	NP	
Median	HAG-7	HAG-7-0	0	35	NP	
Median	HAG-7	HAG-7-0.5	0.5	32	NP	
Median	HAG-7	HAG-7-1	1	34.9	NP	
Median	HAG-7	HAG-7-1.5	1.5	23.2	NP	
Median	HAG-7	HAG-7-2	2	43	NP	
Median	HAG-8	HAG-8-0	0	62.4	NP	
Median	HAG-8	HAG-8-0 DUP	0	282.8	NP	
Median	HAG-8	HAG-8-0.5	0.5	37.3	NP	
Median	HAG-8	HAG-8-1	1	34.7	NP	
Median	HAG-8	HAG-8-1.5	1.5	35.6	NP	
Median	HAG-8	HAG-8-2	2	40.7	NP	
Median	HAG-9	HAG-9-0	0	14	NP	
Median	HAG-9	HAG-9-0.5	0.5	26.2	NP	
Median	HAG-9	HAG-9-1	1	17.8	NP	
Median	HAG-9	HAG-9-1.5	1.5	20.5	NP	
Median	HAG-9	HAG-9-2	2	26.8	NP	
Median	HAG-10	HAG-10-0	0	48.7	NP	
Median	HAG-10	HAG-10-0.5	0.5	49.6	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Median	HAG-10	HAG-10-1	1	52.9	NP	
Median	HAG-10	HAG-10-1.5	1.5	54.6	NP	
Median	HAG-10	HAG-10-2	2	43.4	NP	
Median	HAG-11	HAG-11-0	0	31.2	NP	
Median	HAG-11	HAG-11-0.5	0.5	58.8	NP	
Median	HAG-11	HAG-11-1	1	56.1	NP	
Median	HAG-11	HAG-11-1.5	1.5	56.7	NP	
Median	HAG-11	HAG-11-2	2	37.4	NP	
Otay River	HA-1	HA-1-0 DUP	0	198.4	<0.1	1
Otay River	HA-1	HA-1-0	0	124.9	NP	
Otay River	HA-1	HA-1-0.5	0.5	428.1	NP	
Otay River	HA-1	HA-1-1	1	381.9	NP	
Otay River	HA-1	HA-1-1.5	1.5	248.9	NP	
Otay River	HA-2	HA-2-0	0	64	NP	
Otay River	HA-2	HA-2-0 DUP	0	96	NP	
Otay River	HA-2	HA-2-0.5	0.5	218	NP	
Otay River	HA-2	HA-2-1	1	262	NP	
Otay River	HA-2	HA-2-1.5	1.5	251	NP	
Otay River	HA-2	HA-2-2	2	247	NP	
Otay River	HA-3	HA-3-0	0	141.1	NP	
Otay River	HA-3	HA-3-0 DUP	0	177	NP	
Otay River	HA-3	HA-3-0.5	0.5	202	NP	
Otay River	HA-3	HA-3-1	1	439.4	NP	
Otay River	HA-3	HA-3-1.5	1.5	333.2	NP	
Otay River	HA-4	HA-4-0	0	100	NP	
Otay River	HA-5	HA-5-0	0	205	NP	
Otay River	HA-5	HA-5-0.5	0.5	202	NP	
Otay River	HA-5	HA-5-1	1	228	NP	
Otay River	HA-5	HA-5-1.5	1.5	194	NP	
Otay River	HA-5	HA-5-2	2	167	NP	
Otay River	HA-6	HA-6-0	0	148	NP	
Otay River	HA-6	HA-6-0.5	0.5	276.6	NP	
Otay River	HA-6	HA-6-1	1	290.9	NP	
Otay River	HA-6	HA-6-1.5	1.5	305.2	NP	
Otay River	HA-6	HA-6-2	2	65.9	NP	
Otay River	HA-7	HA-7-0	0	411.7	NP	
Otay River	HA-7	HA-7-0.5	0.5	383.9	NP	
Otay River	HA-7	HA-7-1	1	413.7	NP	
Otay River	HA-7	HA-7-1.5	1.5	365.9	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Otay River	HA-7	HA-7-2	2	383.9	NP	
Otay River	HA-8	HA-8-0 DUP	0	130	NP	
Otay River	HA-8	HA-8-0	0	120	NP	
Otay River	HA-8	HA-8-0.5	0.5	191	NP	
Otay River	HA-8	HA-8-1	1	145	NP	
Otay River	HA-8	HA-8-1.5	1.5	163	NP	
Otay River	HA-8	HA-8-2	2	152	NP	
Otay River	HA-9	HA-9-0	0	122	NP	
Otay River	HA-9	HA-9-0.5	0.5	92	NP	
Otay River	HA-9	HA-9-1	1	103	NP	
Otay River	HA-9	HA-9-1.5	1.5	90	NP	
Otay River	HA-9	HA-9-2	2	267	NP	
Otay River	HA-10	HA-10-0 DUP	0	186	NP	
Otay River	HA-10	HA-10-0	0	145	NP	
Otay River	HA-10	HA-10-0.5	0.5	453	NP	
Otay River	HA-10	HA-10-1	1	440	NP	
Otay River	HA-10	HA-10-1.5	1.5	456	NP	
Otay River	HA-10	HA-10-2	2	488	NP	
Otay River	HA-11	HA-11-0 DUP	0	41.5	NP	
Otay River	HA-11	HA-11-0	0	59.3	NP	
Otay River	HA-11	HA-11-0.5	0.5	149.7	NP	
Otay River	HA-11	HA-11-1	1	163.2	NP	
Otay River	HA-12	HA-12-0	0	108	NP	
Otay River	HA-12	HA-12-0 DUP	0	144	NP	
Otay River	HA-12	HA-12-0.5	0.5	129	NP	
Otay River	HA-12	HA-12-1	1	140	NP	
Otay River	HA-12	HA-12-1.5	1.5	218	NP	
Otay River	HA-12	HA-12-2	2	191	NP	
Otay River	HA-13	HA-13-0	0	192.1	NP	
Otay River	HA-13	HA-13-0.5	0.5	209.9	NP	
Otay River	HA-13	HA-13-1	1	215.5	NP	
Otay River	HA-13	HA-13-1.5	1.5	186.8	NP	
Otay River	HA-13	HA-13-2	2	213.9	NP	
Otay River	HA-14	HA-14-0	0	82	NP	
Otay River	HA-14	HA-14-0.5	0.5	136	NP	
Otay River	HA-14	HA-14-1	1	277	NP	
Otay River	HA-14	HA-14-1.5	1.5	240	NP	
Otay River	HA-14	HA-14-2	2	63	NP	
Otay River	HA-15	HA-15-0	0	333	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Otay River	HA-15	HA-15-0.5	0.5	220.3	NP	
Otay River	HA-15	HA-15-1	1	184.6	NP	
Otay River	HA-15	HA-15-1.5	1.5	224.7	NP	
Otay River	HA-15	HA-15-2	2	222.9	NP	
Otay River	HA-16	HA-16-0	0	190	NP	
Otay River	HA-16	HA-16-0.5	0.5	142	NP	
Otay River	HA-16	HA-16-1	1	134	NP	
Otay River	HA-16	HA-16-1.5	1.5	197	NP	
Otay River	HA-16	HA-16-2	2	194	NP	
Otay River	HA-17	HA-17-0	0	75	NP	
Otay River	HA-17	HA-17-0.5	0.5	175	NP	
Otay River	HA-17	HA-17-1	1	173	NP	
Otay River	HA-17	HA-17-1.5	1.5	153	NP	
Otay River	HA-17	HA-17-2	2	179	NP	
Otay River	HA-18	HA-18-0	0	184	NP	
Otay River	HA-18	HA-18-0 DUP	0	182	NP	
Otay River	HA-18	HA-18-0.5	0.5	201	NP	
Otay River	HA-18	HA-18-1	1	123	NP	
Otay River	HA-18	HA-18-1.5	1.5	87	NP	
Otay River	HA-19	HA-19-0	0	264.3	NP	
Otay River	HA-19	HA-19-0.5	0.5	240.2	NP	
Otay River	HA-19	HA-19-1	1	106	NP	
Otay River	HA-19	HA-19-1.5	1.5	86	NP	
Otay River	HA-19	HA-19-2	2	110.9	NP	
Otay River	HA-20	HA-20-0	0	133	NP	
Otay River	HA-20	HA-20-0.5	0.5	149	NP	
Otay River	HA-21	HA-21-0	0	81	NP	
Otay River	HA-21	HA-21-0 DUP	0	112	NP	
Otay River	HA-21	HA-21-0.5	0.5	167	NP	
Otay River	HA-21	HA-21-1	1	120	NP	
Otay River	HA-22	HA-22-0	0	151	NP	
Otay River	HA-22	HA-22-0.5	0.5	192	NP	
Otay River	HA-22	HA-22-1	1	200	NP	
Otay River	HA-22	HA-22-1.5	1.5	128	NP	
Otay River	HA-22	HA-22-2	2	169	NP	
Otay River	HA-23	HA-23-0	0	225	NP	
Otay River	HA-23	HA-23-0 DUP	0	112	NP	
Otay River	HA-23	HA-23-0.5	0.5	422	NP	
Otay River	HA-23	HA-23-1	1	280	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Otay River	HA-24	HA-24-0	0	523	NP	
Otay River	HA-24	HA-24-0.5	0.5	290	NP	
Otay River	HA-24	HA-24-1	1	250	NP	
Otay River	HA-24	HA-24-1.5	1.5	275	NP	
Otay River	HA-25	HA-25-0	0	135.4	NP	
Otay River	HA-25	HA-25-0 DUP	0	106.5	NP	
Otay River	HA-25	HA-25-0.5	0.5	209.6	NP	
Otay River	HA-26	HA-26-0	0	258	NP	
Otay River	HA-26	HA-26-0.5	0.5	275	NP	
Otay River	HA-26	HA-26-1	1	564	NP	
Otay River	HA-26	HA-26-1.5	1.5	435	NP	
Otay River	HA-26	HA-26-2	2	542	NP	
Otay River	HA-27	HA-27-0	0	149.4	NP	
Otay River	HA-27	HA-27-0.5	0.5	157.1	NP	
Otay River	HA-27	HA-27-1	1	142.7	NP	
Otay River	HA-27	HA-27-1.5	1.5	178.7	NP	
Otay River	HA-27	HA-27-2	2	55.9	NP	
Otay River	HA-28	HA-28-0	0	110	NP	
Otay River	HA-28	HA-28-0 DUP	0	120	NP	
Otay River	HA-28	HA-28-0.5	0.5	207	NP	
Otay River	HA-28	HA-28-1	1	192	NP	
Otay River	HA-29	HA-29-0	0	132	NP	
Otay River	HA-29	HA-29-0 DUP	0	126	NP	
Otay River	HA-29	HA-29-0.5	0.5	196	NP	
Otay River	HA-29	HA-29-1	1	239	NP	
Otay River	HA-29	HA-29-1.5	1.5	185	NP	
Otay River	HA-30	HA-30-0	0	180.10	NP	
Otay River	HA-30	HA-30-0.5	0.5	156.90	NP	
Otay River	HA-30	HA-30-1	1	93.20	NP	
Otay River	HA-30	HA-30-1.5	1.5	145.20	NP	
Otay River	HA-31	HA-31-0	0	410	NP	
Otay River	HA-31	HA-31-0.5	0.5	341	NP	
Otay River	HA-31	HA-31-1	1	362	NP	
Otay River	HA-31	HA-31-1.5	1.5	258	NP	
Otay River	HA-31	HA-31-2	2	308	NP	
Otay River	HA-32	HA-32-0	0	112	NP	
Otay River	HA-32	HA-32-0.5	0.5	183	NP	
Otay River	HA-33	HA-33-0	0	165	NP	
Otay River	HA-33	HA-33-0.5	0.5	159	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Otay River	HA-33	HA-33-1	1	308	NP	
Otay River	HA-33	HA-33-1.5	1.5	171	NP	
Otay River	HA-34	HA-34-0 DUP	0	103	NP	
Otay River	HA-34	HA-34-0	0	95	NP	
Otay River	HA-34	HA-34-0.5	0.5	177	NP	
Otay River	HA-34	HA-34-1	1	244	NP	
Otay River	HA-34	HA-34-1.5	1.5	209	NP	
Otay River	HA-35	HA-35-0	0	72	NP	
Otay River	HA-35	HA-35-0 DUP	0	95	NP	
Otay River	HA-35	HA-35-0.5	0.5	198	NP	
Otay River	HA-35	HA-35-1	1	270	NP	
Otay River	HA-36	HA-36-0	0	276.7	NP	
Otay River	HA-36	HA-36-0.5	0.5	149.1	NP	
Otay River	HA-36	HA-36-1	1	145.5	NP	
Otay River	HA-36	HA-36-1.5	1.5	143.9	NP	
Otay River	HA-36	HA-36-2	2	237.5	NP	
Otay River	HA-37	HA-37-0	0	234	NP	
Otay River	HA-37	HA-37-0.5	0.5	163	NP	
Otay River	HA-37	HA-37-1	1	164	NP	
Otay River	HA-37	HA-37-1.5	1.5	236	NP	
Otay River	HA-37	HA-37-2	2	244	NP	
Otay River	HA-38	HA-38-0 DUP	0	106	NP	
Otay River	HA-38	HA-38-0.5	0.5	200	NP	
Otay River	HA-38	HA-38-1	1	190	NP	
Otay River	HA-38	HA-38-1.5	1.5	273	NP	
Otay River	HA-38	HA-38-2	2	254	NP	
Otay River	HA-39	HA-39-0	0	200	NP	
Otay River	HA-39	HA-39-0.5	0.5	227	NP	
Otay River	HA-39	HA-39-1	1	235	NP	
Otay River	HA-39	HA-39-1.5	1.5	237	NP	
Otay River	HA-39	HA-39-2	2	159	NP	
Otay River	HA-40	HA-40-0	0	117.3	NP	
Otay River	HA-40	HA-40-0 DUP	0	172.6	NP	
Otay River	HA-40	HA-40-0.5	0.5	117.3	NP	
Otay River	HA-41	HA-41-0	0	200	NP	
Otay River	HA-41	HA-41-0.5	0.5	171.1	NP	
Otay River	HA-41	HA-41-1	1	206.9	NP	
Otay River	HA-41	HA-41-1.5	1.5	204.8	NP	
Otay River	HA-41	HA-41-2	2	176.4	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Otay River	HA-42	HA-42-0	0	190	NP	
Otay River	HA-43	HA-43-0	0	56	NP	
Otay River	HA-43	HA-43-0 DUP	0	68	NP	
Otay River	HA-43	HA-43-0.5	0.5	125	NP	
Otay River	HA-43	HA-43-1	1	251	NP	
Otay River	HA-43	HA-43-1.5	1.5	193	NP	
Otay River	HA-43	HA-43-2	2	180	NP	
Otay River	HA-44	HA-44-0	0	175	NP	
Otay River	HA-44	HA-44-0.5	0.5	111	NP	
Otay River	HA-44	HA-44-1	1	215	NP	
Otay River	HA-44	HA-44-1.5	1.5	180	NP	
Otay River	HA-44	HA-44-2	2	192	NP	
Otay River	HA-45	HA-45-0 DUP	0	97.2	NP	
Otay River	HA-45	HA-45-0	0	71.6	NP	
Otay River	HA-45	HA-45-0.5	0.5	131.6	NP	
Otay River	HA-45	HA-45-1	1	117.2	NP	
Otay River	HA-45	HA-45-1.5	1.5	184.4	NP	
Otay River	HA-45	HA-45-2	2	249	NP	
Otay River	HA-46	HA-46-0	0	171.5	NP	
Otay River	HA-46	HA-46-0.5	0.5	209.4	NP	
Otay River	HA-46	HA-46-1	1	219.7	NP	
Otay River	HA-46	HA-46-1.5	1.5	213.6	NP	
Otay River	HA-46	HA-46-2	2	182.5	NP	
Otay River	HA-47	HA-47-0	0	190.4	NP	
Otay River	HA-47	HA-47-0.5	0.5	189	NP	
Otay River	HA-47	HA-47-1	1	79.8	NP	
Otay River	HA-48	HA-48-0	0	242	NP	
Otay River	HA-48	HA-48-0.5	0.5	198	NP	
Otay River	HA-48	HA-48-1	1	223	NP	
Otay River	HA-48	HA-48-1.5	1.5	171	NP	
Otay River	HA-48	HA-48-2	2	150	NP	
Otay River	HA-49	HA-49-0 DUP	0	152	NP	
Otay River	HA-49	HA-49-0	0	116	NP	
Otay River	HA-49	HA-49-0.5	0.5	243	NP	
Otay River	HA-49	HA-49-1	1	258	NP	
Otay River	HA-50	HA-50-0	0	231	NP	
Sewer	TS-1	TS-1-1	1	393	NP	
Sewer	TS-1	TS-1-3	3	296	NP	
Sewer	TS-1	TS-1-5	5	358	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Sewer	TS-1	TS-1-6.5	6.5	130	NP	
Sewer	TS-2	TS-2-1	1	285	NP	
Sewer	TS-2	TS-2-3	3	277	NP	
Sewer	TS-2	TS-2-5	5	238	NP	
Sewer	TS-2	TS-2-7.5	7.5	232	NP	
Sewer	TS-3	TS-3-1	1	223	NP	
Sewer	TS-3	TS-3-3	3	230	NP	
Sewer	TS-3	TS-3-3 DUP	3	319.2	NP	
Sewer	TS-3	TS-3-5	5	307	NP	
Sewer	TS-3	TS-3-6.5	6.5	149	NP	
Sewer	TS-4	TS-4-1	1	266	NP	
Sewer	TS-4	TS-4-3	3	228	NP	
Sewer	TS-4	TS-4-5	5	210	NP	
Sewer	TS-4	TS-4-6.5	6.5	135	NP	
Sewer	TS-5	TS-5-1	1	288	NP	
Sewer	TS-5	TS-5-1 DUP	1	311.2	NP	
Sewer	TS-5	TS-5-3	3	327	NP	
Sewer	TS-6	TS-6-1	1	186	NP	
Sewer	TS-6	TS-6-3	3	226	NP	
Sewer	TS-6	TS-6-5	5	267	NP	
Sewer	TS-6	TS-6-6	6	166	NP	
Sewer	TS-7	TS-7-1	1	238	NP	
Sewer	TS-7	TS-7-3	3	264	NP	
Sewer	TS-7	TS-7-5	5	238	NP	
Sewer	TS-7	TS-7-6	6	237	NP	
Sewer	TS-8	TS-8-1	1	264	1.3	
Sewer	TS-8	TS-8-3	3	188	NP	
Sewer	TS-8	TS-8-5	5	183	NP	
Sewer	TS-8	TS-8-7.5	7.5	186	NP	
Sewer	TS-9	TS-9-1 DUP	1	309.5	NP	
Sewer	TS-9	TS-9-1	1	222	<0.1	7
Sewer	TS-9	TS-9-3	3	340	<0.1	7
Sewer	TS-10	TS-10-1	1	335	<0.1	1
Sewer	TS-10	TS-10-3	3	414	<0.1	10
Sewer	TS-10	TS-10-4	4	289	<0.1	11
Sewer	TS-11	TS-11-1	1	380	NP	
Sewer	TS-11	TS-11-3	3	283	NP	
Sewer	TS-11	TS-11-5	5	233	NP	
Sewer	TS-11	TS-11-7.5	7.5	394	<0.1	2

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Sewer	TS-12	TS-12-1	1	267	<0.1	11
Sewer	TS-12	TS-12-3 DUP	3	326.9	0.7	28
Sewer	TS-12	TS-12-3	3	217	<0.1	10
Sewer	TS-12	TS-12-4	4	242	<0.1	19
Sewer	TS-13	TS-13-1	1	323	<0.1	5
Sewer	TS-13	TS-13-3	3	177	NP	
Sewer	TS-14	TS-14-1	1	361	<0.1	6
Sewer	TS-14	TS-14-3	3	203	NP	
Sewer	TS-14	TS-14-4	4	164	NP	
Sewer	TS-15	TS-15-1	1	400	<0.1	2
Sewer	TS-15	TS-15-3	3	326	NP	
Sewer	TS-15	TS-15-5	5	117	NP	
Sewer	TS-16	TS-16-1 DUP	1	364.6	NP	
Sewer	TS-16	TS-16-1	1	340.3	NP	
Sewer	TS-16	TS-16-3	3	305.8	NP	
Sewer	TS-17	TS-17-1	1	164	NP	
Sewer	TS-17	TS-17-3	3	349.1	NP	
Sewer	TS-18	TS-18-1	1	304.3	NP	
Sewer	TS-18	TS-18-3	3	310.1	NP	
Sewer	TS-19	TS-19-1	1	214	NP	
Sewer	TS-19	TS-19-3	3	232	NP	
Sewer	TS-19	TS-19-3 DUP	3	455.1	NP	
Sewer	TS-19	TS-19-4	4	69.3	NP	
Sewer	TS-20	TS-20-1	1	264.6	NP	
Sewer	TS-20	TS-20-3	3	280.5	NP	
Sewer	TS-20	TS-20-5	5	246.5	NP	
Sewer	TS-21	TS-21-1	1	301.6	NP	
Sewer	TS-21	TS-21-3	3	463.5	NP	
Sewer	TS-21	TS-21-4	4	84.1	NP	
Sewer	TS-22	TS-22-1	1	198.3	NP	
Sewer	TS-22	TS-22-3	3	335.5	NP	
Sewer	TS-22	TS-22-4.5	4.5	252.5	NP	
Shooting Range Field	HAF-1	HAF-1-0	0	68.1	NP	
Shooting Range Field	HAF-1	HAF-1-0.5	0.5	76.7	NP	
Shooting Range Field	HAF-1	HAF-1-1	1	44.7	NP	
Shooting Range Field	HAF-1	HAF-1-1.5	1.5	47.5	NP	
Shooting Range Field	HAF-1	HAF-1-2	2	48.5	NP	
Shooting Range Field	HAF-2	HAF-2-0 DUP	0	196.9	NP	
Shooting Range Field	HAF-2	HAF-2-0	0	85.1	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-2	HAF-2-0.5	0.5	50.4	NP	
Shooting Range Field	HAF-2	HAF-2-1	1	47.3	NP	
Shooting Range Field	HAF-2	HAF-2-1.5	1.5	49.2	NP	
Shooting Range Field	HAF-2	HAF-2-2	2	52.3	NP	
Shooting Range Field	HAF-3	HAF-3-0	0	44.2	NP	
Shooting Range Field	HAF-3	HAF-3-0.5	0.5	34.8	NP	
Shooting Range Field	HAF-3	HAF-3-1	1	31.6	NP	
Shooting Range Field	HAF-3	HAF-3-1.5	1.5	27.6	NP	
Shooting Range Field	HAF-3	HAF-3-2	2	13	NP	
Shooting Range Field	HAF-23	HAF-23-0	0	83.7	NP	
Shooting Range Field	HAF-23	HAF-23-0.5	0.5	54.5	NP	
Shooting Range Field	HAF-23	HAF-23-1	1	50.5	NP	
Shooting Range Field	HAF-23	HAF-23-1.5	1.5	43.8	NP	
Shooting Range Field	HAF-23	HAF-23-2	2	26.4	NP	
Shooting Range Field	HAF-24	HAF-24-0	0	68.3	NP	
Shooting Range Field	HAF-24	HAF-24-0 DUP	0	185.6	NP	
Shooting Range Field	HAF-24	HAF-24-0.5	0.5	76.5	NP	
Shooting Range Field	HAF-24	HAF-24-1	1	81.1	NP	
Shooting Range Field	HAF-24	HAF-24-1.5	1.5	64.9	NP	
Shooting Range Field	HAF-24	HAF-24-2	2	70.7	NP	
Shooting Range Field	HAF-44	HAF-44-0	0	48.6	NP	
Shooting Range Field	HAF-44	HAF-44-0.5	0.5	54.2	NP	
Shooting Range Field	HAF-44	HAF-44-1	1	47.4	NP	
Shooting Range Field	HAF-44	HAF-44-1.5	1.5	54.3	NP	
Shooting Range Field	HAF-44	HAF-44-2	2	57	NP	
Shooting Range Field	HAF-45	HAF-45-0 DUP	0	255.5	NP	
Shooting Range Field	HAF-45	HAF-45-0	0	70.6	NP	
Shooting Range Field	HAF-45	HAF-45-0.5	0.5	59.5	NP	
Shooting Range Field	HAF-45	HAF-45-1	1	55	NP	
Shooting Range Field	HAF-45	HAF-45-1.5	1.5	59.5	NP	
Shooting Range Field	HAF-45	HAF-45-2	2	60	NP	
Shooting Range Field	HAF-65	HAF-65-0	0	85	NP	
Shooting Range Field	HAF-65	HAF-65-0 DUP	0	156.4	NP	
Shooting Range Field	HAF-65	HAF-65-0.5	0.5	82	NP	
Shooting Range Field	HAF-65	HAF-65-1	1	93	NP	
Shooting Range Field	HAF-65	HAF-65-1.5	1.5	87	NP	
Shooting Range Field	HAF-65	HAF-65-2	2	105	NP	
Shooting Range Field	HAF-66	HAF-66-0	0	51.8	NP	
Shooting Range Field	HAF-66	HAF-66-0.5	0.5	49.5	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-66	HAF-66-1	1	38.6	NP	
Shooting Range Field	HAF-66	HAF-66-1.5	1.5	35.2	NP	
Shooting Range Field	HAF-66	HAF-66-2	2	35	NP	
Shooting Range Field	HAF-67	HAF-67-0 DUP	0	151.2	NP	
Shooting Range Field	HAF-67	HAF-67-0	0	96.2	NP	
Shooting Range Field	HAF-67	HAF-67-0.5	0.5	92	NP	
Shooting Range Field	HAF-67	HAF-67-1	1	86	NP	
Shooting Range Field	HAF-67	HAF-67-1.5	1.5	81.3	NP	
Shooting Range Field	HAF-67	HAF-67-2	2	74.9	NP	
Shooting Range Field	HAF-68	HAF-68-0	0	75	NP	
Shooting Range Field	HAF-68	HAF-68-0.5	0.5	68	NP	
Shooting Range Field	HAF-68	HAF-68-1	1	74	NP	
Shooting Range Field	HAF-68	HAF-68-1.5	1.5	51	NP	
Shooting Range Field	HAF-68	HAF-68-2	2	47	NP	
Shooting Range Field	HAF-86	HAF-86-0	0	35.4	NP	
Shooting Range Field	HAF-86	HAF-86-0.5	0.5	36.6	NP	
Shooting Range Field	HAF-86	HAF-86-1	1	36.9	NP	
Shooting Range Field	HAF-86	HAF-86-1.5	1.5	35.3	NP	
Shooting Range Field	HAF-86	HAF-86-2	2	38.4	NP	
Shooting Range Field	HAF-87	HAF-87-0	0	82.1	NP	
Shooting Range Field	HAF-87	HAF-87-0.75	0.75	65	NP	
Shooting Range Field	HAF-87	HAF-87-1	1	61.6	NP	
Shooting Range Field	HAF-87	HAF-87-1.5	1.5	58.2	NP	
Shooting Range Field	HAF-87	HAF-87-2	2	47.2	NP	
Shooting Range Field	HAF-88	HAF-88-0 DUP	0	77	NP	
Shooting Range Field	HAF-88	HAF-88-0	0	66	NP	
Shooting Range Field	HAF-88	HAF-88-0.5	0.5	85	NP	
Shooting Range Field	HAF-88	HAF-88-1	1	93	NP	
Shooting Range Field	HAF-88	HAF-88-1.5	1.5	58	NP	
Shooting Range Field	HAF-88	HAF-88-2	2	58.1	NP	
Shooting Range Field	HAF-89	HAF-89-0	0	47.9	<0.1	5
Shooting Range Field	HAF-89	HAF-89-0.5	0.5	42.2	NP	
Shooting Range Field	HAF-89	HAF-89-1	1	44.8	NP	
Shooting Range Field	HAF-89	HAF-89-1.5	1.5	46.5	NP	
Shooting Range Field	HAF-89	HAF-89-2	2	58.1	NP	
Shooting Range Field	HAF-90	HAF-90-0 DUP	0	94.8	NP	
Shooting Range Field	HAF-90	HAF-90-0	0	48.9	<0.1	1
Shooting Range Field	HAF-90	HAF-90-0.5	0.5	60.7	NP	
Shooting Range Field	HAF-90	HAF-90-1	1	64.1	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-90	HAF-90-1.5	1.5	51.6	NP	
Shooting Range Field	HAF-90	HAF-90-2	2	54.6	NP	
Shooting Range Field	HAF-91	HAF-91-0	0	84.2	NP	
Shooting Range Field	HAF-91	HAF-91-0 DUP	0	84.1	<0.1	1
Shooting Range Field	HAF-91	HAF-91-0.5	0.5	48.4	NP	
Shooting Range Field	HAF-91	HAF-91-1	1	53.1	NP	
Shooting Range Field	HAF-91	HAF-91-1.5	1.5	50.1	NP	
Shooting Range Field	HAF-91	HAF-91-2	2	58.2	NP	
Shooting Range Field	HAF-92	HAF-92-0	0	32.5	<0.1	3
Shooting Range Field	HAF-92	HAF-92-0.5	0.5	44.5	NP	
Shooting Range Field	HAF-92	HAF-92-1	1	74.2	NP	
Shooting Range Field	HAF-92	HAF-92-1.5	1.5	72.8	NP	
Shooting Range Field	HAF-92	HAF-92-2	2	69.8	NP	
Shooting Range Field	HAF-101	HAF-101-0	0	19	NP	
Shooting Range Field	HAF-101	HAF-101-0.5	0.5	19.4	NP	
Shooting Range Field	HAF-101	HAF-101-1	1	26	NP	
Shooting Range Field	HAF-101	HAF-101-1.5	1.5	9.7	NP	
Shooting Range Field	HAF-101	HAF-101-2	2	11.3	NP	
Shooting Range Field	HAF-102	HAF-102-0 DUP	0	332.5	NP	
Shooting Range Field	HAF-102	HAF-102-0	0	67.8	NP	
Shooting Range Field	HAF-102	HAF-102-0.5	0.5	73	NP	
Shooting Range Field	HAF-102	HAF-102-1	1	75.9	NP	
Shooting Range Field	HAF-102	HAF-102-1.5	1.5	58.4	NP	
Shooting Range Field	HAF-102	HAF-102-2	2	101.3	NP	
Shooting Range Field	HAF-103	HAF-103-0	0	56.2	NP	
Shooting Range Field	HAF-103	HAF-103-0.5	0.5	57.2	NP	
Shooting Range Field	HAF-103	HAF-103-1	1	61.8	NP	
Shooting Range Field	HAF-103	HAF-103-1.5	1.5	57.1	NP	
Shooting Range Field	HAF-103	HAF-103-2	2	119.4	NP	
Shooting Range Field	HAF-104	HAF-104-0	0	90.7	NP	
Shooting Range Field	HAF-104	HAF-104-0 DUP	0	191.3	NP	
Shooting Range Field	HAF-104	HAF-104-0.5	0.5	90.6	NP	
Shooting Range Field	HAF-104	HAF-104-1	1	91.1	NP	
Shooting Range Field	HAF-104	HAF-104-1.5	1.5	100.4	NP	
Shooting Range Field	HAF-104	HAF-104-2	2	128	NP	
Shooting Range Field	HAF-108	HAF-108-0	0	26.8	NP	
Shooting Range Field	HAF-108	HAF-108-0.5	0.5	37.2	NP	
Shooting Range Field	HAF-108	HAF-108-1	1	19.7	NP	
Shooting Range Field	HAF-108	HAF-108-1.5	1.5	31.2	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-108	HAF-108-2	2	28.4	NP	
Shooting Range Field	HAF-109	HAF-109-0	0	48.3	NP	
Shooting Range Field	HAF-109	HAF-109-0.5	0.5	44.1	NP	
Shooting Range Field	HAF-109	HAF-109-1	1	44.6	NP	
Shooting Range Field	HAF-109	HAF-109-1.5	1.5	37	NP	
Shooting Range Field	HAF-109	HAF-109-2	2	24.3	NP	
Shooting Range Field	HAF-110	HAF-110-0 DUP	0	62.6	NP	
Shooting Range Field	HAF-110	HAF-110-0	0	80.5	NP	
Shooting Range Field	HAF-110	HAF-110-0.5	0.5	42.2	NP	
Shooting Range Field	HAF-110	HAF-110-1	1	56.6	NP	
Shooting Range Field	HAF-110	HAF-110-1.5	1.5	51.2	NP	
Shooting Range Field	HAF-110	HAF-110-2	2	46.3	NP	
Shooting Range Field	HAF-111	HAF-111-0	0	67.3	NP	
Shooting Range Field	HAF-111	HAF-111-0 DUP	0	135.4	NP	
Shooting Range Field	HAF-111	HAF-111-0.5	0.5	192.4	NP	
Shooting Range Field	HAF-111	HAF-111-1	1	16.5	NP	
Shooting Range Field	HAF-111	HAF-111-1.5	1.5	198.4	NP	
Shooting Range Field	HAF-111	HAF-111-2	2	65	NP	
Shooting Range Field	HAF-112	HAF-112-0	0	51.1	NP	
Shooting Range Field	HAF-112	HAF-112-0.5	0.5	58.5	NP	
Shooting Range Field	HAF-112	HAF-112-1	1	55.1	NP	
Shooting Range Field	HAF-112	HAF-112-1.5	1.5	44.8	NP	
Shooting Range Field	HAF-112	HAF-112-2	2	41.8	NP	
Shooting Range Field	HAF-113	HAF-113-0	0	54.3	<0.1	5
Shooting Range Field	HAF-113	HAF-113-0 DUP	0	69.6	NP	
Shooting Range Field	HAF-113	HAF-113-0.5	0.5	72.1	NP	
Shooting Range Field	HAF-113	HAF-113-1	1	74.3	NP	
Shooting Range Field	HAF-113	HAF-113-1.5	1.5	71.6	NP	
Shooting Range Field	HAF-113	HAF-113-2	2	72.2	NP	
Shooting Range Field	HAF-114	HAF-114-0	0	100.2	1.2	14
Shooting Range Field	HAF-114	HAF-114-0.5	0.5	92.7	NP	
Shooting Range Field	HAF-114	HAF-114-1	1	68	<0.1	1
Shooting Range Field	HAF-114	HAF-114-1.5	1.5	54.3	<0.1	1
Shooting Range Field	HAF-114	HAF-114-2	2	56.1	<0.1	8
Shooting Range Field	HAF-114	HAF-114-2.5	2.5	53.4	NP	
Shooting Range Field	HAF-122	HAF-122-0	0	30.9	NP	
Shooting Range Field	HAF-122	HAF-122-0 DUP	0	229.2	NP	
Shooting Range Field	HAF-122	HAF-122-0.5	0.5	26.6	NP	
Shooting Range Field	HAF-122	HAF-122-1	1	13.1	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-122	HAF-122-1.5	1.5	17.8	NP	
Shooting Range Field	HAF-122	HAF-122-2	2	59.3	NP	
Shooting Range Field	HAF-123	HAF-123-0	0	68.2	NP	
Shooting Range Field	HAF-123	HAF-123-0 DUP	0	187.2	NP	
Shooting Range Field	HAF-123	HAF-123-0.5	0.5	56.3	NP	
Shooting Range Field	HAF-123	HAF-123-1	1	55.7	NP	
Shooting Range Field	HAF-123	HAF-123-1.5	1.5	42.1	NP	
Shooting Range Field	HAF-123	HAF-123-2	2	70.1	NP	
Shooting Range Field	HAF-124	HAF-124-0 DUP	0	155.3	NP	
Shooting Range Field	HAF-124	HAF-124-0	0	89.9	NP	
Shooting Range Field	HAF-124	HAF-124-0.5	0.5	93.4	NP	
Shooting Range Field	HAF-124	HAF-124-1	1	92.7	NP	
Shooting Range Field	HAF-124	HAF-124-1.5	1.5	100.1	NP	
Shooting Range Field	HAF-124	HAF-124-2	2	72.8	NP	
Shooting Range Field	HAF-125	HAF-125-0	0	60.5	NP	
Shooting Range Field	HAF-125	HAF-125-0.5	0.5	61.6	NP	
Shooting Range Field	HAF-125	HAF-125-1	1	60.9	NP	
Shooting Range Field	HAF-125	HAF-125-1.5	1.5	59.5	NP	
Shooting Range Field	HAF-125	HAF-125-2	2	110.9	NP	
Shooting Range Field	HAF-129	HAF-129-0	0	75	NP	
Shooting Range Field	HAF-129	HAF-129-0.5	0.5	71	NP	
Shooting Range Field	HAF-129	HAF-129-1	1	68	NP	
Shooting Range Field	HAF-129	HAF-129-1.5	1.5	95	NP	
Shooting Range Field	HAF-129	HAF-129-2	2	40	NP	
Shooting Range Field	HAF-130	HAF-130-0	0	22.2	NP	
Shooting Range Field	HAF-130	HAF-130-0.75	0.75	13.2	NP	
Shooting Range Field	HAF-130	HAF-130-1	1	27.7	NP	
Shooting Range Field	HAF-130	HAF-130-1.5	1.5	50.2	NP	
Shooting Range Field	HAF-130	HAF-130-2	2	53.2	NP	
Shooting Range Field	HAF-131	HAF-131-0	0	35.3	NP	
Shooting Range Field	HAF-131	HAF-131-0 DUP	0	56.2	NP	
Shooting Range Field	HAF-131	HAF-131-0.5	0.5	31.3	NP	
Shooting Range Field	HAF-131	HAF-131-1	1	29.9	NP	
Shooting Range Field	HAF-131	HAF-131-1.5	1.5	35.1	NP	
Shooting Range Field	HAF-131	HAF-131-2	2	61.9	NP	
Shooting Range Field	HAF-132	HAF-132-0	0	33.4	0.9	14
Shooting Range Field	HAF-132	HAF-132-0.5	0.5	61.3	NP	
Shooting Range Field	HAF-132	HAF-132-0.5 DUP	0.5	61.3	NP	
Shooting Range Field	HAF-132	HAF-132-1	1	40.7	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-132	HAF-132-1.5	1.5	43	NP	
Shooting Range Field	HAF-132	HAF-132-2	2	34.7	NP	
Shooting Range Field	HAF-133	HAF-133-0	0	74.3	<0.1	7
Shooting Range Field	HAF-133	HAF-133-0.5	0.5	60.3	NP	
Shooting Range Field	HAF-133	HAF-133-1	1	55.3	NP	
Shooting Range Field	HAF-133	HAF-133-1.5	1.5	48.1	NP	
Shooting Range Field	HAF-133	HAF-133-2	2	60.6	NP	
Shooting Range Field	HAF-134	HAF-134-0 DUP	0	54	NP	
Shooting Range Field	HAF-134	HAF-134-0	0	53	NP	
Shooting Range Field	HAF-134	HAF-134-0.5	0.5	56	NP	
Shooting Range Field	HAF-134	HAF-134-1	1	58	NP	
Shooting Range Field	HAF-134	HAF-134-1.5	1.5	55	NP	
Shooting Range Field	HAF-134	HAF-134-2	2	58	NP	
Shooting Range Field	HAF-135	HAF-135-0	0	45.8	NP	
Shooting Range Field	HAF-135	HAF-135-0.5	0.5	78.7	NP	
Shooting Range Field	HAF-135	HAF-135-1	1	74.7	NP	
Shooting Range Field	HAF-135	HAF-135-1.5	1.5	67.7	NP	
Shooting Range Field	HAF-135	HAF-135-2	2	69.6	NP	
Shooting Range Field	HAF-136	HAF-136-0 DUP	0	52	NP	
Shooting Range Field	HAF-136	HAF-136-0	0	55	NP	
Shooting Range Field	HAF-136	HAF-136-0.5	0.5	56	NP	
Shooting Range Field	HAF-136	HAF-136-1	1	56	NP	
Shooting Range Field	HAF-136	HAF-136-1.5	1.5	66	NP	
Shooting Range Field	HAF-136	HAF-136-2	2	46	NP	
Shooting Range Field	HAF-137	HAF-137-0	0	61.6	NP	
Shooting Range Field	HAF-137	HAF-137-0 DUP	0	72.5	NP	
Shooting Range Field	HAF-137	HAF-137-0.5	0.5	77.2	NP	
Shooting Range Field	HAF-137	HAF-137-1	1	75.1	NP	
Shooting Range Field	HAF-137	HAF-137-1.5	1.5	73.5	NP	
Shooting Range Field	HAF-137	HAF-137-2	2	38.1	NP	
Shooting Range Field	HAF-138	HAF-138-0	0	87.3	3.5	~45
Shooting Range Field	HAF-138	HAF-138-0.5	0.5	80.6	NP	
Shooting Range Field	HAF-138	HAF-138-1	1	80.3	NP	
Shooting Range Field	HAF-138	HAF-138-1.5	1.5	86.8	NP	
Shooting Range Field	HAF-138	HAF-138-2	2	88.7	NP	
Shooting Range Field	HAF-139	HAF-139-0	0	103.8	NP	
Shooting Range Field	HAF-139	HAF-139-0.5	0.5	98.2	NP	
Shooting Range Field	HAF-139	HAF-139-1	1	104.8	NP	
Shooting Range Field	HAF-139	HAF-139-1.5	1.5	98.7	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-139	HAF-139-2	2	87.3	NP	
Shooting Range Field	HAF-140	HAF-140-0 DUP	0	70.1	NP	
Shooting Range Field	HAF-140	HAF-140-0	0	63.5	NP	
Shooting Range Field	HAF-140	HAF-140-0.5	0.5	76.5	NP	
Shooting Range Field	HAF-140	HAF-140-1	1	55.5	NP	
Shooting Range Field	HAF-140	HAF-140-1.5	1.5	60.2	NP	
Shooting Range Field	HAF-140	HAF-140-2	2	53.6	NP	
Shooting Range Field	HAF-141	HAF-141-0	0	60.7	2	33
Shooting Range Field	HAF-141	HAF-141-0.5	0.5	58.7	1	17
Shooting Range Field	HAF-141	HAF-141-1	1	58.6	<0.1	8
Shooting Range Field	HAF-141	HAF-141-1.5	1.5	70.7	NP	
Shooting Range Field	HAF-141	HAF-141-2	2	70.2	NP	
Shooting Range Field	HAF-142	HAF-142-0 DUP	0	81.3	NP	
Shooting Range Field	HAF-142	HAF-142-0	0	82.5	NP	
Shooting Range Field	HAF-142	HAF-142-0.5	0.5	54.1	NP	
Shooting Range Field	HAF-142	HAF-142-1	1	54.2	NP	
Shooting Range Field	HAF-142	HAF-142-1.5	1.5	51.3	NP	
Shooting Range Field	HAF-142	HAF-142-2	2	60.2	NP	
Shooting Range Field	HAF-143	HAF-143-0	0	35.9	NP	
Shooting Range Field	HAF-143	HAF-143-0.5	0.5	56.9	NP	
Shooting Range Field	HAF-143	HAF-143-1	1	54.2	NP	
Shooting Range Field	HAF-143	HAF-143-1.5	1.5	35.4	NP	
Shooting Range Field	HAF-143	HAF-143-2	2	34.2	NP	
Shooting Range Field	HAF-144	HAF-144-0	0	76.8	NP	
Shooting Range Field	HAF-144	HAF-144-0.5	0.5	85.2	NP	
Shooting Range Field	HAF-144	HAF-144-1	1	75.1	NP	
Shooting Range Field	HAF-144	HAF-144-1.5	1.5	83.1	NP	
Shooting Range Field	HAF-144	HAF-144-2	2	114.7	NP	
Shooting Range Field	HAF-145	HAF-145-0	0	78.3	NP	
Shooting Range Field	HAF-145	HAF-145-0.5	0.5	61.8	NP	
Shooting Range Field	HAF-145	HAF-145-1	1	58.1	NP	
Shooting Range Field	HAF-145	HAF-145-1.5	1.5	64.2	NP	
Shooting Range Field	HAF-145	HAF-145-2	2	135.8	NP	
Shooting Range Field	HAF-146	HAF-146-0	0	79.4	NP	
Shooting Range Field	HAF-146	HAF-146-0 DUP	0	220.8	NP	
Shooting Range Field	HAF-146	HAF-146-0.5	0.5	62.3	NP	
Shooting Range Field	HAF-146	HAF-146-1	1	61.3	NP	
Shooting Range Field	HAF-146	HAF-146-1.5	1.5	62.2	NP	
Shooting Range Field	HAF-146	HAF-146-2	2	83.3	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-146 QA/QC	HAF-146-0 ng	0		1.5	
Shooting Range Field	HAF-146 QA/QC	HAF-146-0 g	0		1.5	
Shooting Range Field	HAF-146 QA/QC	HAF-146-0.5 g	0.5		2.6	
Shooting Range Field	HAF-146 QA/QC	HAF-146-0.5 ng	0.5		2.6	
Shooting Range Field	HAF-146 QA/QC	HAF-146-1 g	1		NP	
Shooting Range Field	HAF-146 QA/QC	HAF-146-1 ng	1		NP	
Shooting Range Field	HAF-146 QA/QC	HAF-146-1.5 g	1.5		0.8	
Shooting Range Field	HAF-146 QA/QC	HAF-146-1.5 ng	1.5		0.8	
Shooting Range Field	HAF-146 QA/QC	HAF-146-2 ng	2		<0.1	1
Shooting Range Field	HAF-146 QA/QC	HAF-146-2 g	2		<0.1	1
Shooting Range Field	HAF-146 QA/QC	HAF-146-2.5 g	2.5		3	
Shooting Range Field	HAF-146 QA/QC	HAF-146-2.5 ng	2.5		3	
Shooting Range Field	HAF-151	HAF-151-0	0	27	NP	
Shooting Range Field	HAF-151	HAF-151-0.5	0.5	43.2	NP	
Shooting Range Field	HAF-151	HAF-151-1	1	58	NP	
Shooting Range Field	HAF-151	HAF-151-1.5	1.5	50.4	NP	
Shooting Range Field	HAF-151	HAF-151-2	2	46.5	NP	
Shooting Range Field	HAF-152	HAF-152-0	0	21.8	NP	
Shooting Range Field	HAF-152	HAF-152-0 DUP	0	17.5	NP	
Shooting Range Field	HAF-152	HAF-152-0.5	0.5	38.6	NP	
Shooting Range Field	HAF-152	HAF-152-1	1	45.7	NP	
Shooting Range Field	HAF-152	HAF-152-1.5	1.5	48.6	NP	
Shooting Range Field	HAF-152	HAF-152-2	2	47.7	NP	
Shooting Range Field	HAF-153	HAF-153-0 DUP	0	42.3	NP	
Shooting Range Field	HAF-153	HAF-153-0	0	35.2	<0.1	4
Shooting Range Field	HAF-153	HAF-153-0.5	0.5	39.6	NP	
Shooting Range Field	HAF-153	HAF-153-1	1	49	NP	
Shooting Range Field	HAF-153	HAF-153-1.5	1.5	51.1	NP	
Shooting Range Field	HAF-153	HAF-153-2	2	23.9	NP	
Shooting Range Field	HAF-154	HAF-154-0	0	35	1.1	
Shooting Range Field	HAF-154	HAF-154-0.5	0.5	30	NP	
Shooting Range Field	HAF-154	HAF-154-1	1	49	NP	
Shooting Range Field	HAF-154	HAF-154-1.5	1.5	53	NP	
Shooting Range Field	HAF-154	HAF-154-2	2	50	NP	
Shooting Range Field	HAF-155	HAF-155-0 DUP	0	26.1	<0.1	3
Shooting Range Field	HAF-155	HAF-155-0	0	33.3	<0.1	13
Shooting Range Field	HAF-155	HAF-155-0.5	0.5	16.7	<0.1	5
Shooting Range Field	HAF-155	HAF-155-1	1	29	1	25
Shooting Range Field	HAF-155	HAF-155-1.5	1.5	46.2	<0.1	3

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-155	HAF-155-2	2	46.3	NP	
Shooting Range Field	HAF-156	HAF-156-0	0	69.4	NP	
Shooting Range Field	HAF-156	HAF-156-0.5	0.5	49.4	NP	
Shooting Range Field	HAF-156	HAF-156-1	1	64.2	NP	
Shooting Range Field	HAF-156	HAF-156-1.5	1.5	22.3	NP	
Shooting Range Field	HAF-156	HAF-156-2	2	50.4	NP	
Shooting Range Field	HAF-157	HAF-157-0.5	0.5	55.7	NP	
Shooting Range Field	HAF-157	HAF-157-1	1	54.1	NP	
Shooting Range Field	HAF-157	HAF-157-1.5	1.5	65.6	NP	
Shooting Range Field	HAF-157	HAF-157-2	2	68.4	NP	
Shooting Range Field	HAF-158	HAF-158-0 DUP	0	74.3	NP	
Shooting Range Field	HAF-158	HAF-158-0	0	86.9	NP	
Shooting Range Field	HAF-158	HAF-158-0.5	0.5	77.2	NP	
Shooting Range Field	HAF-158	HAF-158-1	1	77.7	NP	
Shooting Range Field	HAF-158	HAF-158-1.5	1.5	73.3	NP	
Shooting Range Field	HAF-158	HAF-158-2	2	68.2	NP	
Shooting Range Field	HAF-159	HAF-159-0	0	70.3	NP	
Shooting Range Field	HAF-159	HAF-159-0.5	0.5	63.6	NP	
Shooting Range Field	HAF-159	HAF-159-1	1	64.8	NP	
Shooting Range Field	HAF-159	HAF-159-1.5	1.5	58.3	NP	
Shooting Range Field	HAF-159	HAF-159-2	2	48.7	NP	
Shooting Range Field	HAF-160	HAF-160-0 DUP	0	58.5	NP	
Shooting Range Field	HAF-160	HAF-160-0	0	587	NP	
Shooting Range Field	HAF-160	HAF-160-0.5	0.5	55.2	NP	
Shooting Range Field	HAF-160	HAF-160-1	1	68.6	NP	
Shooting Range Field	HAF-160	HAF-160-1.5	1.5	55.4	NP	
Shooting Range Field	HAF-160	HAF-160-2	2	65.9	NP	
Shooting Range Field	HAF-161	HAF-161-0	0	68.2	NP	
Shooting Range Field	HAF-161	HAF-161-0.5	0.5	42.1	NP	
Shooting Range Field	HAF-161	HAF-161-1	1	62.4	NP	
Shooting Range Field	HAF-161	HAF-161-1.5	1.5	37.8	NP	
Shooting Range Field	HAF-161	HAF-161-2	2	51.6	NP	
Shooting Range Field	HAF-161	HAF-161-2.5	2.5	74.1	NP	
Shooting Range Field	HAF-162	HAF-162-0	0	36.2	<0.1	5
Shooting Range Field	HAF-162	HAF-162-0.5	0.5	35.2	NP	
Shooting Range Field	HAF-162	HAF-162-1	1	26.6	NP	
Shooting Range Field	HAF-162	HAF-162-1.5	1.5	39.3	NP	
Shooting Range Field	HAF-162	HAF-162-2	2	50.8	NP	
Shooting Range Field	HAF-163	HAF-163-0	0	46.9	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-163	HAF-163-0 DUP	0	70.2	NP	
Shooting Range Field	HAF-163	HAF-163-0.5	0.5	76.5	NP	
Shooting Range Field	HAF-163	HAF-163-1	1	73.5	NP	
Shooting Range Field	HAF-163	HAF-163-1.5	1.5	81.5	NP	
Shooting Range Field	HAF-163	HAF-163-2	2	77.4	NP	
Shooting Range Field	HAF-164	HAF-164-0 DUP	0	339.5	NP	
Shooting Range Field	HAF-164	HAF-164-0	0	80.3	NP	
Shooting Range Field	HAF-164	HAF-164-0.5	0.5	79.7	NP	
Shooting Range Field	HAF-164	HAF-164-1	1	91.5	NP	
Shooting Range Field	HAF-164	HAF-164-1.5	1.5	97.1	NP	
Shooting Range Field	HAF-164	HAF-164-2	2	90.5	NP	
Shooting Range Field	HAF-165	HAF-165-0 DUP	0	163	NP	
Shooting Range Field	HAF-165	HAF-165-0	0	56.6	NP	
Shooting Range Field	HAF-165	HAF-165-0.5	0.5	80.3	NP	
Shooting Range Field	HAF-165	HAF-165-1	1	74	NP	
Shooting Range Field	HAF-165	HAF-165-1.5	1.5	64.1	NP	
Shooting Range Field	HAF-165	HAF-165-2	2	109.4	NP	
Shooting Range Field	HAF-166	HAF-166-0 DUP	0	326.6	NP	
Shooting Range Field	HAF-166	HAF-166-0	0	81.3	NP	
Shooting Range Field	HAF-166	HAF-166-0.5	0.5	104.7	NP	
Shooting Range Field	HAF-166	HAF-166-1	1	35.8	NP	
Shooting Range Field	HAF-166	HAF-166-1.5	1.5	55.4	NP	
Shooting Range Field	HAF-166	HAF-166-2	2	70.4	NP	
Shooting Range Field	HAF-167	HAF-167-0	0	35.2	NP	
Shooting Range Field	HAF-167	HAF-167-0.5	0.5	47.3	NP	
Shooting Range Field	HAF-167	HAF-167-1	1	62.7	NP	
Shooting Range Field	HAF-167	HAF-167-1.5	1.5	61.7	NP	
Shooting Range Field	HAF-167	HAF-167-2	2	92.9	NP	
Shooting Range Field	HAF-172	HAF-172-0	0	17	<0.1	2
Shooting Range Field	HAF-172	HAF-172-0.5	0.5	16	<0.1	5
Shooting Range Field	HAF-172	HAF-172-1	1	18	<0.1	3
Shooting Range Field	HAF-172	HAF-172-1.5	1.5	18	<0.1	8
Shooting Range Field	HAF-172	HAF-172-2	2	32	NP	
Shooting Range Field	HAF-173	HAF-173-0 DUP	0	40.8	NP	
Shooting Range Field	HAF-173	HAF-173-0	0	63.8	NP	
Shooting Range Field	HAF-173	HAF-173-0.5	0.5	45.7	NP	
Shooting Range Field	HAF-173	HAF-173-1	1	49.2	NP	
Shooting Range Field	HAF-173	HAF-173-1.5	1.5	42	NP	
Shooting Range Field	HAF-173	HAF-173-2	2	43.3	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-174	HAF-174-0	0	16	NP	
Shooting Range Field	HAF-174	HAF-174-0.5	0.5	26	NP	
Shooting Range Field	HAF-174	HAF-174-1	1	25	NP	
Shooting Range Field	HAF-174	HAF-174-1.5	1.5	31	NP	
Shooting Range Field	HAF-174	HAF-174-2	2	26	NP	
Shooting Range Field	HAF-175	HAF-175-0	0	34.1	<0.1	7
Shooting Range Field	HAF-175	HAF-175-0 DUP	0	20.6	<0.1	10
Shooting Range Field	HAF-175	HAF-175-0.5	0.5	30.5	<0.1	12
Shooting Range Field	HAF-175	HAF-175-1	1	52.3	NP	
Shooting Range Field	HAF-175	HAF-175-1.5	1.5	51.4	NP	
Shooting Range Field	HAF-175	HAF-175-2	2	50	NP	
Shooting Range Field	HAF-176	HAF-176-0	0	30	0.2	7
Shooting Range Field	HAF-176	HAF-176-0 DUP	0	11	<0.1	4
Shooting Range Field	HAF-176	HAF-176-0.5	0.5	32	NP	
Shooting Range Field	HAF-176	HAF-176-1	1	27	NP	
Shooting Range Field	HAF-176	HAF-176-1.5	1.5	28	NP	
Shooting Range Field	HAF-176	HAF-176-2	2	33	NP	
Shooting Range Field	HAF-177	HAF-177-0	0	20	6.5	
Shooting Range Field	HAF-177	HAF-177-0.5	0.5	15	<0.1	3
Shooting Range Field	HAF-177	HAF-177-1	1	28	<0.1	1
Shooting Range Field	HAF-177	HAF-177-1.5	1.5	30	<0.1	2
Shooting Range Field	HAF-177	HAF-177-2	2	29	NP	
Shooting Range Field	HAF-178	HAF-178-0	0	60	1.4	20
Shooting Range Field	HAF-178	HAF-178-0.5	0.5	61	NP	
Shooting Range Field	HAF-178	HAF-178-1	1	60	NP	
Shooting Range Field	HAF-178	HAF-178-1.5	1.5	56	NP	
Shooting Range Field	HAF-178	HAF-178-2	2	49	NP	
Shooting Range Field	HAF-179	HAF-179-0 DUP	0	29.1	0.3	9
Shooting Range Field	HAF-179	HAF-179-0	0	35.5	<0.1	2
Shooting Range Field	HAF-179	HAF-179-0.5	0.5	43.3	<0.1	7
Shooting Range Field	HAF-179	HAF-179-1	1	49.7	NP	
Shooting Range Field	HAF-179	HAF-179-1.5	1.5	47.1	NP	
Shooting Range Field	HAF-179	HAF-179-2	2	53.6	NP	
Shooting Range Field	HAF-180	HAF-180-0	0	22.9	NP	
Shooting Range Field	HAF-180	HAF-180-0.5	0.5	48.8	NP	
Shooting Range Field	HAF-180	HAF-180-1	1	52.5	NP	
Shooting Range Field	HAF-180	HAF-180-1.5	1.5	53.9	NP	
Shooting Range Field	HAF-180	HAF-180-2	2	43	NP	
Shooting Range Field	HAF-181	HAF-181-0	0	26	<0.1	3

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-181	HAF-181-0 DUP	0	24	NP	
Shooting Range Field	HAF-181	HAF-181-0.5	0.5	43	NP	
Shooting Range Field	HAF-181	HAF-181-1	1	39	NP	
Shooting Range Field	HAF-181	HAF-181-1.5	1.5	42	NP	
Shooting Range Field	HAF-181	HAF-181-2	2	52	NP	
Shooting Range Field	HAF-182	HAF-182-0	0	40.1	<0.1	6
Shooting Range Field	HAF-182	HAF-182-0 DUP	0	48.7	<0.1	1
Shooting Range Field	HAF-182	HAF-182-0.5	0.5	40.1	<0.1	2
Shooting Range Field	HAF-182	HAF-182-1	1	63.4	NP	
Shooting Range Field	HAF-182	HAF-182-1.5	1.5	57.2	NP	
Shooting Range Field	HAF-182	HAF-182-2	2	64.3	NP	
Shooting Range Field	HAF-183	HAF-183-0	0	29.6	<0.1	7
Shooting Range Field	HAF-183	HAF-183-0.5	0.5	40.1	<0.1	1
Shooting Range Field	HAF-183	HAF-183-1	1	59.6	<0.1	1
Shooting Range Field	HAF-183	HAF-183-1.5	1.5	66.7	NP	
Shooting Range Field	HAF-183	HAF-183-2	2	60.4	NP	
Shooting Range Field	HAF-184	HAF-184-0	0	36.9	<0.1	3
Shooting Range Field	HAF-184	HAF-184-0.5	0.5	43.5	NP	
Shooting Range Field	HAF-184	HAF-184-1	1	61.7	NP	
Shooting Range Field	HAF-184	HAF-184-1.5	1.5	70.9	NP	
Shooting Range Field	HAF-184	HAF-184-2	2	55.4	NP	
Shooting Range Field	HAF-185	HAF-185-0	0	102.2	NP	
Shooting Range Field	HAF-185	HAF-185-0.5	0.5	105.6	NP	
Shooting Range Field	HAF-185	HAF-185-1	1	84.4	NP	
Shooting Range Field	HAF-185	HAF-185-1.5	1.5	96.7	NP	
Shooting Range Field	HAF-185	HAF-185-2	2	101.4	NP	
Shooting Range Field	HAF-186	HAF-186-0	0	74	NP	
Shooting Range Field	HAF-186	HAF-186-0.5	0.5	93.7	NP	
Shooting Range Field	HAF-186	HAF-186-1	1	80.36	NP	
Shooting Range Field	HAF-186	HAF-186-1.5	1.5	102.3	NP	
Shooting Range Field	HAF-186	HAF-186-2	2	140.3	NP	
Shooting Range Field	HAF-187	HAF-187-0	0	97.9	NP	
Shooting Range Field	HAF-187	HAF-187-0.5	0.5	94.8	NP	
Shooting Range Field	HAF-187	HAF-187-1	1	80.2	NP	
Shooting Range Field	HAF-187	HAF-187-1.5	1.5	89	NP	
Shooting Range Field	HAF-187	HAF-187-2	2	100.5	NP	
Shooting Range Field	HAF-188	HAF-188-0	0	68.3	NP	
Shooting Range Field	HAF-188	HAF-188-0 DUP	0	385.3	NP	
Shooting Range Field	HAF-188	HAF-188-0.5	0.5	60.6	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-188	HAF-188-1	1	53.6	NP	
Shooting Range Field	HAF-188	HAF-188-1.5	1.5	60.3	NP	
Shooting Range Field	HAF-188	HAF-188-2	2	96.1	NP	
Shooting Range Field	HAF-189	HAF-189-0	0	80.7	NP	0
Shooting Range Field	HAF-189	HAF-189-0.5	0.5	82.3	NP	0
Shooting Range Field	HAF-189	HAF-189-1	1	86.3	NP	0
Shooting Range Field	HAF-189	HAF-189-1.5	1.5	81.1	NP	0
Shooting Range Field	HAF-189	HAF-189-2	2	134.1	NP	0
Shooting Range Field	HAF-193	HAF-193-0	0	69.1	NP	
Shooting Range Field	HAF-193	HAF-193-0 DUP	0	195.2	NP	
Shooting Range Field	HAF-193	HAF-193-0.5	0.5	63.4	NP	
Shooting Range Field	HAF-193	HAF-193-1	1	58.3	NP	
Shooting Range Field	HAF-193	HAF-193-1.5	1.5	53.8	NP	
Shooting Range Field	HAF-193	HAF-193-2	2	65.8	NP	
Shooting Range Field	HAF-194	HAF-194-0	0	22	NP	
Shooting Range Field	HAF-194	HAF-194-0.5	0.5	13	NP	
Shooting Range Field	HAF-194	HAF-194-1	1	45	NP	
Shooting Range Field	HAF-194	HAF-194-1.5	1.5	35	NP	
Shooting Range Field	HAF-195	HAF-195-0 DUP	0	31.5	NP	
Shooting Range Field	HAF-195	HAF-195-0	0	34	NP	
Shooting Range Field	HAF-195	HAF-195-0.5	0.5	51.5	NP	
Shooting Range Field	HAF-195	HAF-195-1	1	48.8	NP	
Shooting Range Field	HAF-195	HAF-195-1.5	1.5	54.9	NP	
Shooting Range Field	HAF-195	HAF-195-2	2	63.1	NP	
Shooting Range Field	HAF-196	HAF-196-0	0	34	NP	
Shooting Range Field	HAF-196	HAF-196-0.5	0.5	60	NP	
Shooting Range Field	HAF-196	HAF-196-1	1	45	NP	
Shooting Range Field	HAF-196	HAF-196-1.5	1.5	51	NP	
Shooting Range Field	HAF-196	HAF-196-2	2	78	NP	
Shooting Range Field	HAF-197	HAF-197-0	0	24.7	NP	
Shooting Range Field	HAF-197	HAF-197-0 DUP	0	37.1	<0.1	1
Shooting Range Field	HAF-197	HAF-197-0.5	0.5	57.8	NP	
Shooting Range Field	HAF-197	HAF-197-1	1	57.1	NP	
Shooting Range Field	HAF-197	HAF-197-1.5	1.5	61.9	NP	
Shooting Range Field	HAF-197	HAF-197-2	2	70.2	NP	
Shooting Range Field	HAF-197	HAF-197-2.5	2.5	31.5	NP	
Shooting Range Field	HAF-198	HAF-198-0	0	64.4	NP	
Shooting Range Field	HAF-198	HAF-198-0.75	0.75	33.4	NP	
Shooting Range Field	HAF-198	HAF-198-1	1	23.2	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-198	HAF-198-1.5	1.5	38.9	NP	
Shooting Range Field	HAF-198	HAF-198-2	2	37.1	NP	
Shooting Range Field	HAF-199	HAF-199-0	0	31.5	<0.1	6
Shooting Range Field	HAF-199	HAF-199-0 DUP	0	28.7	<0.1	1
Shooting Range Field	HAF-199	HAF-199-0.5	0.5	54.9	<0.1	9
Shooting Range Field	HAF-199	HAF-199-1	1	66.5	NP	
Shooting Range Field	HAF-199	HAF-199-1.5	1.5	73.7	NP	
Shooting Range Field	HAF-199	HAF-199-2	2	62.4	NP	
Shooting Range Field	HAF-200	HAF-200-0 DUP	0	45	0.6	12
Shooting Range Field	HAF-200	HAF-200-0	0	32	0.3	11
Shooting Range Field	HAF-200	HAF-200-0.5	0.5	34	<0.1	2
Shooting Range Field	HAF-200	HAF-200-1	1	35	NP	
Shooting Range Field	HAF-200	HAF-200-1.5	1.5	36	NP	
Shooting Range Field	HAF-200	HAF-200-2	2	39	NP	
Shooting Range Field	HAF-201	HAF-201-0.5	0.5	45.9	<0.1	2
Shooting Range Field	HAF-201	HAF-201-1	1	54.7	<0.1	1
Shooting Range Field	HAF-201	HAF-201-1.5	1.5	63.5	<0.1	1
Shooting Range Field	HAF-201	HAF-201-2	2	64.7	NP	
Shooting Range Field	HAF-202	HAF-202-0	0	13	<0.1	1
Shooting Range Field	HAF-202	HAF-202-0 DUP	0	24	<0.1	8
Shooting Range Field	HAF-202	HAF-202-0.5	0.5	43	NP	
Shooting Range Field	HAF-202	HAF-202-1	1	50	NP	
Shooting Range Field	HAF-202	HAF-202-1.5	1.5	46	NP	
Shooting Range Field	HAF-202	HAF-202-2	2	48	NP	
Shooting Range Field	HAF-203	HAF-203-0 DUP	0	16.3	<0.1	8
Shooting Range Field	HAF-203	HAF-203-0	0	21.4	<0.1	8
Shooting Range Field	HAF-203	HAF-203-0.5	0.5	27.1	NP	
Shooting Range Field	HAF-203	HAF-203-1	1	43.5	NP	
Shooting Range Field	HAF-203	HAF-203-1.5	1.5	44.1	NP	
Shooting Range Field	HAF-203	HAF-203-2	2	46.7	NP	
Shooting Range Field	HAF-204	HAF-204-0	0	21.3	0.8	10
Shooting Range Field	HAF-204	HAF-204-0.5	0.5	47.6	NP	
Shooting Range Field	HAF-204	HAF-204-1	1	59.5	NP	
Shooting Range Field	HAF-204	HAF-204-1.5	1.5	62.6	NP	
Shooting Range Field	HAF-204	HAF-204-2	2	51.2	NP	
Shooting Range Field	HAF-205	HAF-205-0	0	18.3	NP	
Shooting Range Field	HAF-205	HAF-205-0 DUP	0	13.32	NP	
Shooting Range Field	HAF-205	HAF-205-0.5	0.5	30.4	NP	
Shooting Range Field	HAF-205	HAF-205-1	1	46.87	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-205	HAF-205-1.5	1.5	50.8	NP	
Shooting Range Field	HAF-205	HAF-205-2	2	76.1	NP	
Shooting Range Field	HAF-206	HAF-206-0 DUP	0	405.7	2.1	34
Shooting Range Field	HAF-206	HAF-206-0	0	79.5	NP	
Shooting Range Field	HAF-206	HAF-206-0.5	0.5	94.3	NP	
Shooting Range Field	HAF-206	HAF-206-1	1	92.6	NP	
Shooting Range Field	HAF-206	HAF-206-1.5	1.5	83.7	NP	
Shooting Range Field	HAF-206	HAF-206-2	2	69.2	NP	
Shooting Range Field	HAF-207	HAF-207-0	0	108.1	NP	
Shooting Range Field	HAF-207	HAF-207-0 DUP	0	218.3	<0.1	8
Shooting Range Field	HAF-207	HAF-207-0.5	0.5	112.6	NP	
Shooting Range Field	HAF-207	HAF-207-1	1	119.5	NP	
Shooting Range Field	HAF-207	HAF-207-1.5	1.5	95.7	NP	
Shooting Range Field	HAF-207	HAF-207-2	2	99.9	NP	
Shooting Range Field	HAF-207	HAF-207-2.5	2.5	86.1	NP	
Shooting Range Field	HAF-208	HAF-208-0	0	27.1	NP	
Shooting Range Field	HAF-208	HAF-208-0 DUP	0	155.1	<0.1	1
Shooting Range Field	HAF-208	HAF-208-0.5	0.5	41.2	NP	
Shooting Range Field	HAF-208	HAF-208-1	1	54.5	NP	
Shooting Range Field	HAF-208	HAF-208-1.5	1.5	43.7	NP	
Shooting Range Field	HAF-208	HAF-208-2	2	71.4	NP	
Shooting Range Field	HAF-209	HAF-209-0	0	35.8	NP	
Shooting Range Field	HAF-209	HAF-209-0.5	0.5	36.5	NP	
Shooting Range Field	HAF-209	HAF-209-1	1	40.6	NP	
Shooting Range Field	HAF-209	HAF-209-1.5	1.5	32.6	NP	
Shooting Range Field	HAF-209	HAF-209-2	2	94.4	NP	
Shooting Range Field	HAF-210	HAF-210-0	0	83.5	NP	0
Shooting Range Field	HAF-210	HAF-210-0.5	0.5	93.1	NP	0
Shooting Range Field	HAF-210	HAF-210-1	1	78.5	NP	0
Shooting Range Field	HAF-210	HAF-210-1.5	1.5	81.2	NP	0
Shooting Range Field	HAF-210	HAF-210-2	2	150.1	NP	0
Shooting Range Field	HAF-215	HAF-215-0 DUP	0	171.4	NP	
Shooting Range Field	HAF-215	HAF-215-0	0	58.2	NP	
Shooting Range Field	HAF-215	HAF-215-0.5	0.5	40	NP	
Shooting Range Field	HAF-215	HAF-215-1	1	48	NP	
Shooting Range Field	HAF-215	HAF-215-1.5	1.5	31.4	NP	
Shooting Range Field	HAF-215	HAF-215-2	2	43	NP	
Shooting Range Field	HAF-216	HAF-216-0	0	40	NP	
Shooting Range Field	HAF-216	HAF-216-0 DUP	0	24	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-216	HAF-216-0.5	0.5	37	NP	
Shooting Range Field	HAF-216	HAF-216-1	1	45	NP	
Shooting Range Field	HAF-216	HAF-216-1.5	1.5	64	NP	
Shooting Range Field	HAF-216	HAF-216-2	2	146	NP	
Shooting Range Field	HAF-217	HAF-217-0	0	17.1	NP	
Shooting Range Field	HAF-217	HAF-217-0 DUP	0	25.6	NP	
Shooting Range Field	HAF-217	HAF-217-0.5	0.5	30.7	NP	
Shooting Range Field	HAF-217	HAF-217-1	1	33.5	NP	
Shooting Range Field	HAF-217	HAF-217-1.5	1.5	55.9	NP	
Shooting Range Field	HAF-217	HAF-217-2	2	77.3	NP	
Shooting Range Field	HAF-218	HAF-218-0	0	37.4	NP	
Shooting Range Field	HAF-218	HAF-218-0.5	0.5	53.3	NP	
Shooting Range Field	HAF-218	HAF-218-1	1	50.7	NP	
Shooting Range Field	HAF-218	HAF-218-1.5	1.5	48.3	NP	
Shooting Range Field	HAF-218	HAF-218-2	2	126.2	NP	
Shooting Range Field	HAF-218	HAF-218-2.5	2.5	68.3	NP	
Shooting Range Field	HAF-219	HAF-219-0	0	57.1	NP	
Shooting Range Field	HAF-219	HAF-219-0.5	0.5	45.3	NP	
Shooting Range Field	HAF-219	HAF-219-1	1	40.3	NP	
Shooting Range Field	HAF-219	HAF-219-1.5	1.5	56.5	NP	
Shooting Range Field	HAF-219	HAF-219-2	2	87	NP	
Shooting Range Field	HAF-220	HAF-220-0 DUP	0	30.8	NP	
Shooting Range Field	HAF-220	HAF-220-0	0	25.4	NP	
Shooting Range Field	HAF-220	HAF-220-0.5	0.5	36.2	NP	
Shooting Range Field	HAF-220	HAF-220-1	1	56.9	NP	
Shooting Range Field	HAF-220	HAF-220-1.5	1.5	61.1	NP	
Shooting Range Field	HAF-220	HAF-220-2	2	74.5	NP	
Shooting Range Field	HAF-221	HAF-221-0	0	21.4	NP	
Shooting Range Field	HAF-221	HAF-221-0.5	0.5	38.7	NP	
Shooting Range Field	HAF-221	HAF-221-1	1	48.7	NP	
Shooting Range Field	HAF-221	HAF-221-1.5	1.5	70.3	NP	
Shooting Range Field	HAF-221	HAF-221-2	2	82.1	NP	
Shooting Range Field	HAF-222	HAF-222-0	0	24.9	NP	
Shooting Range Field	HAF-222	HAF-222-0 DUP	0	18.5	NP	
Shooting Range Field	HAF-222	HAF-222-0.5	0.5	33.8	NP	
Shooting Range Field	HAF-222	HAF-222-1	1	45	NP	
Shooting Range Field	HAF-222	HAF-222-1.5	1.5	48.4	NP	
Shooting Range Field	HAF-222	HAF-222-2	2	63.8	NP	
Shooting Range Field	HAF-223	HAF-223-0 DUP	0	11.2	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-223	HAF-223-0	0	20.6	NP	
Shooting Range Field	HAF-223	HAF-223-0.5	0.5	48.4	NP	
Shooting Range Field	HAF-223	HAF-223-1	1	35.5	NP	
Shooting Range Field	HAF-223	HAF-223-1.5	1.5	46.1	<0.1	4
Shooting Range Field	HAF-223	HAF-223-2	2	53.5	<0.1	1
Shooting Range Field	HAF-223	HAF-223-2.5	2.5	28.2	0.1	3
Shooting Range Field	HAF-224	HAF-224-0	0	22.8	<0.1	4
Shooting Range Field	HAF-224	HAF-224-0.5	0.5	23.8	<0.1	1
Shooting Range Field	HAF-224	HAF-224-1	1	33	NP	
Shooting Range Field	HAF-224	HAF-224-1.5	1.5	57.4	NP	
Shooting Range Field	HAF-224	HAF-224-2	2	73.1	NP	
Shooting Range Field	HAF-225	HAF-225-0	0	29	NP	
Shooting Range Field	HAF-225	HAF-225-0.5	0.5	37	NP	
Shooting Range Field	HAF-225	HAF-225-1	1	47	0.7	
Shooting Range Field	HAF-225	HAF-225-1.5	1.5	54	<0.1	1
Shooting Range Field	HAF-225	HAF-225-2	2	87	0.2	9
Shooting Range Field	HAF-225	HAF-225-2.5	2.5	78.2	NP	
Shooting Range Field	HAF-226	HAF-226-0 DUP	0	21	0.5	8
Shooting Range Field	HAF-226	HAF-226-0	0	25	<0.1	1
Shooting Range Field	HAF-226	HAF-226-0.5	0.5	37	<0.1	5
Shooting Range Field	HAF-226	HAF-226-1	1	40	NP	
Shooting Range Field	HAF-226	HAF-226-1.5	1.5	59	<0.1	1
Shooting Range Field	HAF-226	HAF-226-2	2	93	NP	
Shooting Range Field	HAF-226	HAF-226-2.5	2.5	58.8	NP	
Shooting Range Field	HAF-227	HAF-227-0	0	23.2	<0.1	6
Shooting Range Field	HAF-227	HAF-227-0.75	0.75	97.4	NP	
Shooting Range Field	HAF-227	HAF-227-1	1	99.6	NP	
Shooting Range Field	HAF-227	HAF-227-1.5	1.5	81.6	NP	
Shooting Range Field	HAF-227	HAF-227-2	2	82.4	NP	
Shooting Range Field	HAF-228	HAF-228-0	0	57.6	<0.1	5
Shooting Range Field	HAF-228	HAF-228-0.5	0.5	59.2	NP	
Shooting Range Field	HAF-228	HAF-228-1	1	62	NP	
Shooting Range Field	HAF-228	HAF-228-1.5	1.5	49.7	NP	
Shooting Range Field	HAF-228	HAF-228-2	2	73.1	<0.1	2
Shooting Range Field	HAF-228	HAF-228-2.5	2.5	71.7	NP	
Shooting Range Field	HAF-229	HAF-229-0	0	48.3	NP	
Shooting Range Field	HAF-229	HAF-229-0.5	0.5	86	NP	
Shooting Range Field	HAF-229	HAF-229-1	1	53.8	NP	
Shooting Range Field	HAF-229	HAF-229-1.5	1.5	55.4	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-229	HAF-229-2	2	90.5	NP	
Shooting Range Field	HAF-229	HAF-229-2.5	2.5	45.5	NP	
Shooting Range Field	HAF-230	HAF-230-0 DUP	0	352.8	0.4	10
Shooting Range Field	HAF-230	HAF-230-0	0	58.6	NP	
Shooting Range Field	HAF-230	HAF-230-0.5	0.5	45.6	NP	
Shooting Range Field	HAF-230	HAF-230-1	1	69.6	NP	
Shooting Range Field	HAF-230	HAF-230-1.5	1.5	59.8	NP	
Shooting Range Field	HAF-230	HAF-230-2	2	119.4	NP	
Shooting Range Field	HAF-231	HAF-231-0	0	65.5	<0.1	1
Shooting Range Field	HAF-231	HAF-231-0.5	0.5	47.1	NP	0
Shooting Range Field	HAF-231	HAF-231-1	1	46.4	NP	0
Shooting Range Field	HAF-231	HAF-231-1.5	1.5	56.6	NP	0
Shooting Range Field	HAF-231	HAF-231-2	2	63.7	NP	0
Shooting Range Field	HAF-238	HAF-238-0	0	33.8	NP	
Shooting Range Field	HAF-238	HAF-238-0.5	0.5	30.2	NP	
Shooting Range Field	HAF-238	HAF-238-1	1	39.5	NP	
Shooting Range Field	HAF-238	HAF-238-1.5	1.5	34.7	NP	
Shooting Range Field	HAF-238	HAF-238-2	2	35.3	NP	
Shooting Range Field	HAF-239	HAF-239-0	0	63	NP	
Shooting Range Field	HAF-239	HAF-239-0.5	0.5	50	NP	
Shooting Range Field	HAF-239	HAF-239-1	1	51	NP	
Shooting Range Field	HAF-239	HAF-239-1.5	1.5	49	NP	
Shooting Range Field	HAF-239	HAF-239-2	2	40	NP	
Shooting Range Field	HAF-240	HAF-240-0 DUP	0	222.4	NP	
Shooting Range Field	HAF-240	HAF-240-0	0	30.6	0.8	15
Shooting Range Field	HAF-240	HAF-240-0.5	0.5	27.6	NP	
Shooting Range Field	HAF-240	HAF-240-1	1	27.3	NP	
Shooting Range Field	HAF-240	HAF-240-1.5	1.5	28.7	NP	
Shooting Range Field	HAF-240	HAF-240-2	2	29.9	NP	
Shooting Range Field	HAF-241	HAF-241-0	0	12	NP	
Shooting Range Field	HAF-241	HAF-241-0.5	0.5	12.5	NP	
Shooting Range Field	HAF-241	HAF-241-1	1	40.1	NP	
Shooting Range Field	HAF-241	HAF-241-1.5	1.5	33.9	NP	
Shooting Range Field	HAF-241	HAF-241-2	2	63.3	NP	
Shooting Range Field	HAF-241	HAF-241-2.5	2.5	44.1	NP	
Shooting Range Field	HAF-242	HAF-242-0	0	22.7	NP	
Shooting Range Field	HAF-242	HAF-242-0 DUP	0	28.2	NP	
Shooting Range Field	HAF-242	HAF-242-0.5	0.5	64.2	NP	
Shooting Range Field	HAF-242	HAF-242-1	1	58.5	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-242	HAF-242-1.5	1.5	57.6	NP	
Shooting Range Field	HAF-242	HAF-242-2	2	50.7	NP	
Shooting Range Field	HAF-243	HAF-243-0	0	28	NP	
Shooting Range Field	HAF-243	HAF-243-0.5	0.5	45	NP	
Shooting Range Field	HAF-243	HAF-243-1	1	47	NP	
Shooting Range Field	HAF-243	HAF-243-1.5	1.5	48	NP	
Shooting Range Field	HAF-243	HAF-243-2	2	55	NP	
Shooting Range Field	HAF-244	HAF-244-0	0	26.8	NP	
Shooting Range Field	HAF-244	HAF-244-0.5	0.5	36.5	NP	
Shooting Range Field	HAF-244	HAF-244-1	1	42.9	NP	
Shooting Range Field	HAF-244	HAF-244-1.5	1.5	49.6	NP	
Shooting Range Field	HAF-244	HAF-244-2	2	81.4	NP	
Shooting Range Field	HAF-245	HAF-245-0	0	14.6	NP	
Shooting Range Field	HAF-245	HAF-245-0 DUP	0	12.8	NP	
Shooting Range Field	HAF-245	HAF-245-0.5	0.5	44.3	<0.1	1
Shooting Range Field	HAF-245	HAF-245-1	1	50.6	NP	
Shooting Range Field	HAF-245	HAF-245-1.5	1.5	42.1	NP	
Shooting Range Field	HAF-245	HAF-245-2	2	64.2	NP	
Shooting Range Field	HAF-246	HAF-246-0	0	38.7	NP	
Shooting Range Field	HAF-246	HAF-246-0 DUP	0	28.1	NP	
Shooting Range Field	HAF-246	HAF-246-0.5	0.5	53.9	<0.1	1
Shooting Range Field	HAF-246	HAF-246-1	1	46.7	NP	
Shooting Range Field	HAF-246	HAF-246-1.5	1.5	46.4	NP	
Shooting Range Field	HAF-246	HAF-246-2	2	77.7	NP	
Shooting Range Field	HAF-246	HAF-246-2.5	2.5	55.6	0.8	15
Shooting Range Field	HAF-247	HAF-247-0	0	14.6	<0.1	2
Shooting Range Field	HAF-247	HAF-247-0.5	0.5	48.7	<0.1	4
Shooting Range Field	HAF-247	HAF-247-1	1	54	NP	
Shooting Range Field	HAF-247	HAF-247-1.5	1.5	89.4	NP	
Shooting Range Field	HAF-247	HAF-247-2	2	97.1	NP	
Shooting Range Field	HAF-247	HAF-247-2.5	2.5	62.8	NP	
Shooting Range Field	HAF-248	HAF-248-0	0	96	NP	
Shooting Range Field	HAF-248	HAF-248-0 DUP	0	190.3	0.9	17
Shooting Range Field	HAF-248	HAF-248-0.5	0.5	82.3	NP	
Shooting Range Field	HAF-248	HAF-248-1	1	76.8	NP	
Shooting Range Field	HAF-248	HAF-248-1.5	1.5	72	NP	
Shooting Range Field	HAF-248	HAF-248-2	2	111.2	NP	
Shooting Range Field	HAF-249	HAF-249-0	0	47	NP	
Shooting Range Field	HAF-249	HAF-249-0 DUP	0	175.3	<0.1	6

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-249	HAF-249-0.5	0.5	83.4	NP	
Shooting Range Field	HAF-249	HAF-249-1	1	73.8	NP	
Shooting Range Field	HAF-249	HAF-249-1.5	1.5	78.9	NP	
Shooting Range Field	HAF-249	HAF-249-2	2	58.1	NP	
Shooting Range Field	HAF-249	HAF-249-2.5	2.5	51.4	NP	
Shooting Range Field	HAF-250	HAF-250-0 DUP	0	324.1	0.3	8
Shooting Range Field	HAF-250	HAF-250-0	0	65.4	NP	
Shooting Range Field	HAF-250	HAF-250-0.5	0.5	68.6	NP	
Shooting Range Field	HAF-250	HAF-250-1	1	70.1	NP	
Shooting Range Field	HAF-250	HAF-250-1.5	1.5	61.2	NP	
Shooting Range Field	HAF-250	HAF-250-2	2	96.4	NP	
Shooting Range Field	HAF-251	HAF-251-0	0	69.8	<0.1	1
Shooting Range Field	HAF-251	HAF-251-0.5	0.5	71.5	NP	
Shooting Range Field	HAF-251	HAF-251-1	1	70.9	NP	
Shooting Range Field	HAF-251	HAF-251-1.5	1.5	76.2	NP	
Shooting Range Field	HAF-251	HAF-251-2	2	118.3	NP	
Shooting Range Field	HAF-252	HAF-252-0	0	50.5	NP	0
Shooting Range Field	HAF-252	HAF-252-0.5	0.5	84.9	NP	0
Shooting Range Field	HAF-252	HAF-252-1	1	78.4	NP	0
Shooting Range Field	HAF-252	HAF-252-1.5	1.5	65.6	NP	0
Shooting Range Field	HAF-252	HAF-252-2	2	75.3	NP	0
Shooting Range Field	HAF-261	HAF-261-0	0	38.1	NP	
Shooting Range Field	HAF-261	HAF-261-0 DUP	0	28.5	NP	
Shooting Range Field	HAF-261	HAF-261-0.5	0.5	110.8	NP	
Shooting Range Field	HAF-261	HAF-261-1	1	92.9	NP	
Shooting Range Field	HAF-261	HAF-261-1.5	1.5	79.5	NP	
Shooting Range Field	HAF-261	HAF-261-2	2	68.7	NP	
Shooting Range Field	HAF-262	HAF-262-0 DUP	0	49	NP	
Shooting Range Field	HAF-262	HAF-262-0	0	63	NP	
Shooting Range Field	HAF-262	HAF-262-0.5	0.5	87	NP	
Shooting Range Field	HAF-262	HAF-262-1	1	123.8	NP	
Shooting Range Field	HAF-262	HAF-262-1.5	1.5	113.6	NP	
Shooting Range Field	HAF-262	HAF-262-2	2	151.7	NP	
Shooting Range Field	HAF-263	HAF-263-0	0	27.7	NP	
Shooting Range Field	HAF-263	HAF-263-0.5	0.5	73.3	NP	
Shooting Range Field	HAF-263	HAF-263-1	1	73.7	NP	
Shooting Range Field	HAF-263	HAF-263-1.5	1.5	66.6	NP	
Shooting Range Field	HAF-263	HAF-263-2	2	83.9	NP	
Shooting Range Field	HAF-263	HAF-263-2.5	2.5	67.1	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-264	HAF-264-0	0	51	NP	
Shooting Range Field	HAF-264	HAF-264-0.5	0.5	63.4	NP	
Shooting Range Field	HAF-264	HAF-264-1	1	64.7	NP	
Shooting Range Field	HAF-264	HAF-264-1.5	1.5	48.7	NP	
Shooting Range Field	HAF-264	HAF-264-2	2	58.9	NP	
Shooting Range Field	HAF-265	HAF-265-0	0	15.1	NP	
Shooting Range Field	HAF-265	HAF-265-0 DUP	0	13.6	NP	
Shooting Range Field	HAF-265	HAF-265-0.5	0.5	44.3	NP	
Shooting Range Field	HAF-265	HAF-265-1	1	57.7	NP	
Shooting Range Field	HAF-265	HAF-265-1.5	1.5	81.6	NP	
Shooting Range Field	HAF-265	HAF-265-2	2	47.7	NP	
Shooting Range Field	HAF-265	HAF-265-2.5	2.5	43.1	NP	
Shooting Range Field	HAF-266	HAF-266-0	0	17.3	<0.1	1
Shooting Range Field	HAF-266	HAF-266-0.5	0.5	24.6	<0.1	2
Shooting Range Field	HAF-266	HAF-266-1	1	56	NP	
Shooting Range Field	HAF-266	HAF-266-1.5	1.5	20.4	NP	
Shooting Range Field	HAF-266	HAF-266-2	2	91.3	NP	
Shooting Range Field	HAF-266	HAF-266-2.5	2.5	49.8	NP	
Shooting Range Field	HAF-267	HAF-267-0 DUP	0	26	NP	
Shooting Range Field	HAF-267	HAF-267-0	0	10.7	NP	
Shooting Range Field	HAF-267	HAF-267-0.5	0.5	36.2	<0.1	6
Shooting Range Field	HAF-267	HAF-267-1	1	39.3	NP	
Shooting Range Field	HAF-267	HAF-267-1.5	1.5	41.2	NP	
Shooting Range Field	HAF-267	HAF-267-2	2	52.9	<0.1	1
Shooting Range Field	HAF-267	HAF-267-2.5	2.5	50.7	0.3	7
Shooting Range Field	HAF-268	HAF-268-0	0	43.3	NP	
Shooting Range Field	HAF-268	HAF-268-0.5	0.5	40.1	<0.1	1
Shooting Range Field	HAF-268	HAF-268-1	1	35.1	<0.1	2
Shooting Range Field	HAF-268	HAF-268-1.5	1.5	44.2	<0.1	1
Shooting Range Field	HAF-268	HAF-268-2	2	58	<0.1	1
Shooting Range Field	HAF-268	HAF-268-2.5	2.5	84.4	NP	
Shooting Range Field	HAF-269	HAF-269-0	0	127	NP	
Shooting Range Field	HAF-269	HAF-269-0.5	0.5	94	NP	
Shooting Range Field	HAF-269	HAF-269-1	1	102	NP	
Shooting Range Field	HAF-269	HAF-269-1.5	1.5	113	NP	
Shooting Range Field	HAF-269	HAF-269-2	2	157	NP	
Shooting Range Field	HAF-270	HAF-270-0	0	68.7	<0.1	1
Shooting Range Field	HAF-270	HAF-270-0.5	0.5	79.1	NP	
Shooting Range Field	HAF-270	HAF-270-1	1	55.9	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-270	HAF-270-1.5	1.5	54.2	NP	
Shooting Range Field	HAF-270	HAF-270-2	2	58.3	NP	
Shooting Range Field	HAF-271	HAF-271-0	0	44.9	NP	
Shooting Range Field	HAF-271	HAF-271-0.5	0.5	54.5	NP	
Shooting Range Field	HAF-271	HAF-271-1	1	59.1	NP	
Shooting Range Field	HAF-271	HAF-271-1.5	1.5	54.5	NP	
Shooting Range Field	HAF-271	HAF-271-2	2	117.8	NP	
Shooting Range Field	HAF-272	HAF-272-0 DUP	0	345.2	0.5	11
Shooting Range Field	HAF-272	HAF-272-0	0	36.9	NP	
Shooting Range Field	HAF-272	HAF-272-0.5	0.5	31.6	NP	
Shooting Range Field	HAF-272	HAF-272-1	1	27.6	NP	
Shooting Range Field	HAF-272	HAF-272-1.5	1.5	24.9	NP	
Shooting Range Field	HAF-272	HAF-272-2	2	68.1	<0.1	1
Shooting Range Field	HAF-273	HAF-273-0	0	68.2	NP	0
Shooting Range Field	HAF-273	HAF-273-0.5	0.5	85.9	NP	0
Shooting Range Field	HAF-273	HAF-273-1	1	83.1	NP	0
Shooting Range Field	HAF-273	HAF-273-1.5	1.5	79.4	NP	0
Shooting Range Field	HAF-273	HAF-273-2	2	180.5	NP	0
Shooting Range Field	HAF-284	HAF-284-0	0	76	NP	
Shooting Range Field	HAF-284	HAF-284-0.5	0.5	65	NP	
Shooting Range Field	HAF-284	HAF-284-1	1	78	NP	
Shooting Range Field	HAF-284	HAF-284-1.5	1.5	77	NP	
Shooting Range Field	HAF-284	HAF-284-2	2	88	NP	
Shooting Range Field	HAF-285	HAF-285-0	0	72.1	NP	
Shooting Range Field	HAF-285	HAF-285-0 DUP	0	196.7	NP	
Shooting Range Field	HAF-285	HAF-285-0.5	0.5	78	NP	
Shooting Range Field	HAF-285	HAF-285-1	1	76.2	NP	
Shooting Range Field	HAF-285	HAF-285-1.5	1.5	77.4	NP	
Shooting Range Field	HAF-285	HAF-285-2	2	60.6	NP	
Shooting Range Field	HAF-286	HAF-286-0	0	49.7	NP	
Shooting Range Field	HAF-286	HAF-286-0.5	0.5	73.2	NP	
Shooting Range Field	HAF-286	HAF-286-1	1	68.9	NP	
Shooting Range Field	HAF-286	HAF-286-1.5	1.5	83.5	NP	
Shooting Range Field	HAF-286	HAF-286-2	2	63.9	NP	
Shooting Range Field	HAF-287	HAF-287-0	0	81.5	NP	
Shooting Range Field	HAF-287	HAF-287-0 DUP	0	222.8	1.6	16
Shooting Range Field	HAF-287	HAF-287-0.5	0.5	117.3	NP	
Shooting Range Field	HAF-287	HAF-287-1	1	85.5	NP	
Shooting Range Field	HAF-287	HAF-287-1.5	1.5	89.2	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-287	HAF-287-2	2	65.3	NP	
Shooting Range Field	HAF-288	HAF-288-0	0	97	NP	
Shooting Range Field	HAF-288	HAF-288-0.5	0.5	109	NP	
Shooting Range Field	HAF-288	HAF-288-1	1	90	NP	
Shooting Range Field	HAF-288	HAF-288-1.5	1.5	78	NP	
Shooting Range Field	HAF-288	HAF-288-2	2	156	NP	
Shooting Range Field	HAF-289	HAF-289-0 DUP	0	221.4	2.3	30
Shooting Range Field	HAF-289	HAF-289-0	0	71	NP	
Shooting Range Field	HAF-289	HAF-289-0.5	0.5	68	NP	
Shooting Range Field	HAF-289	HAF-289-1	1	70	NP	
Shooting Range Field	HAF-289	HAF-289-1.5	1.5	75	NP	
Shooting Range Field	HAF-289	HAF-289-2	2	76	NP	
Shooting Range Field	HAF-290	HAF-290-0	0	63.9	NP	
Shooting Range Field	HAF-290	HAF-290-0 DUP	0	183.7	<0.1	4
Shooting Range Field	HAF-290	HAF-290-0.5	0.5	58.2	NP	
Shooting Range Field	HAF-290	HAF-290-1	1	53.8	NP	
Shooting Range Field	HAF-290	HAF-290-1.5	1.5	61.2	NP	
Shooting Range Field	HAF-290	HAF-290-2	2	79.2	NP	
Shooting Range Field	HAF-291	HAF-291-0	0	52.5	NP	
Shooting Range Field	HAF-291	HAF-291-0 DUP	0	316.6	0.4	9
Shooting Range Field	HAF-291	HAF-291-0.5	0.5	58.2	NP	
Shooting Range Field	HAF-291	HAF-291-1	1	60.5	NP	
Shooting Range Field	HAF-291	HAF-291-1.5	1.5	54.2	NP	
Shooting Range Field	HAF-291	HAF-291-2	2	92	NP	
Shooting Range Field	HAF-292	HAF-292-0 DUP	0	207.8	NP	
Shooting Range Field	HAF-292	HAF-292-0	0	14.3	NP	
Shooting Range Field	HAF-292	HAF-292-0.5	0.5	61.3	NP	
Shooting Range Field	HAF-292	HAF-292-1	1	58.7	NP	
Shooting Range Field	HAF-292	HAF-292-1.5	1.5	58.8	NP	
Shooting Range Field	HAF-292	HAF-292-2	2	97	NP	
Shooting Range Field	HAF-293	HAF-293-0	0	38.7	NP	
Shooting Range Field	HAF-293	HAF-293-0.5	0.5	59.8	NP	
Shooting Range Field	HAF-293	HAF-293-1	1	58	NP	
Shooting Range Field	HAF-293	HAF-293-1.5	1.5	44.2	NP	
Shooting Range Field	HAF-293	HAF-293-2	2	36.9	NP	
Shooting Range Field	HAF-294	HAF-294-0	0	45.5	NP	0
Shooting Range Field	HAF-294	HAF-294-0.5	0.5	42.5	NP	0
Shooting Range Field	HAF-294	HAF-294-1	1	51.9	NP	0
Shooting Range Field	HAF-294	HAF-294-1.5	1.5	55.4	NP	0

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-294	HAF-294-2	2	30.4	NP	0
Shooting Range Field	HAF-307	HAF-307-0	0	61.6	NP	
Shooting Range Field	HAF-307	HAF-307-0.5	0.5	40.3	NP	
Shooting Range Field	HAF-307	HAF-307-1	1	31.5	NP	
Shooting Range Field	HAF-307	HAF-307-1.5	1.5	15.7	NP	
Shooting Range Field	HAF-307	HAF-307-2	2	38.6	NP	
Shooting Range Field	HAF-308	HAF-308-0	0	57.8	NP	
Shooting Range Field	HAF-308	HAF-308-0.5	0.5	57.8	NP	
Shooting Range Field	HAF-308	HAF-308-1	1	46.8	NP	
Shooting Range Field	HAF-308	HAF-308-1.5	1.5	48.6	NP	
Shooting Range Field	HAF-308	HAF-308-2	2	51.5	NP	
Shooting Range Field	HAF-309	HAF-309-0 DUP	0	140.9	NP	
Shooting Range Field	HAF-309	HAF-309-0	0	88	NP	
Shooting Range Field	HAF-309	HAF-309-0.5	0.5	72	NP	
Shooting Range Field	HAF-309	HAF-309-1	1	76	NP	
Shooting Range Field	HAF-309	HAF-309-1.5	1.5	77	NP	
Shooting Range Field	HAF-309	HAF-309-2	2	75	NP	
Shooting Range Field	HAF-310	HAF-310-0	0	76	NP	
Shooting Range Field	HAF-310	HAF-310-0.5	0.5	99	NP	
Shooting Range Field	HAF-310	HAF-310-1	1	94	NP	
Shooting Range Field	HAF-310	HAF-310-1.5	1.5	90	NP	
Shooting Range Field	HAF-310	HAF-310-2	2	111	NP	
Shooting Range Field	HAF-311	HAF-311-0	0	60	NP	
Shooting Range Field	HAF-311	HAF-311-0.5	0.5	88	NP	
Shooting Range Field	HAF-311	HAF-311-1	1	82	NP	
Shooting Range Field	HAF-311	HAF-311-1.5	1.5	90	NP	
Shooting Range Field	HAF-311	HAF-311-2	2	107	NP	
Shooting Range Field	HAF-312	HAF-312-0	0	88.5	NP	
Shooting Range Field	HAF-312	HAF-312-0.5	0.5	71.2	NP	
Shooting Range Field	HAF-312	HAF-312-1	1	73.4	NP	
Shooting Range Field	HAF-312	HAF-312-1.5	1.5	65.3	NP	
Shooting Range Field	HAF-312	HAF-312-2	2	73.4	NP	
Shooting Range Field	HAF-313	HAF-313-0	0	48.7	NP	
Shooting Range Field	HAF-313	HAF-313-0.5	0.5	59.9	NP	
Shooting Range Field	HAF-313	HAF-313-1	1	58.1	NP	
Shooting Range Field	HAF-313	HAF-313-1.5	1.5	61.6	NP	
Shooting Range Field	HAF-313	HAF-313-2	2	57.8	NP	
Shooting Range Field	HAF-314	HAF-314-0	0	31.3	NP	
Shooting Range Field	HAF-314	HAF-314-0 DUP	0	357.8	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-314	HAF-314-0.5	0.5	43.5	NP	
Shooting Range Field	HAF-314	HAF-314-1	1	27.2	NP	
Shooting Range Field	HAF-314	HAF-314-1.5	1.5	36.4	NP	
Shooting Range Field	HAF-314	HAF-314-2	2	70.8	NP	
Shooting Range Field	HAF-315	HAF-315-0	0	68.2	NP	0
Shooting Range Field	HAF-315	HAF-315-0.5	0.5	80.2	NP	0
Shooting Range Field	HAF-315	HAF-315-1	1	90.5	NP	0
Shooting Range Field	HAF-315	HAF-315-1.5	1.5	90.6	NP	0
Shooting Range Field	HAF-315	HAF-315-2	2	107.1	NP	0
Shooting Range Field	HAF-330	HAF-330-0	0	61.5	NP	
Shooting Range Field	HAF-330	HAF-330-0 DUP	0	149	NP	
Shooting Range Field	HAF-330	HAF-330-0.5	0.5	51.2	NP	
Shooting Range Field	HAF-330	HAF-330-1	1	33.3	NP	
Shooting Range Field	HAF-330	HAF-330-1.5	1.5	34	NP	
Shooting Range Field	HAF-330	HAF-330-2	2	43.8	NP	
Shooting Range Field	HAF-331	HAF-331-0	0	95.4	NP	
Shooting Range Field	HAF-331	HAF-331-0.5	0.5	96	NP	
Shooting Range Field	HAF-331	HAF-331-1	1	84.3	NP	
Shooting Range Field	HAF-331	HAF-331-1.5	1.5	83.9	NP	
Shooting Range Field	HAF-331	HAF-331-2	2	93.2	NP	
Shooting Range Field	HAF-332	HAF-332-0	0	91.2	NP	
Shooting Range Field	HAF-332	HAF-332-0 DUP	0	164.5	NP	
Shooting Range Field	HAF-332	HAF-332-0.5	0.5	95.4	NP	
Shooting Range Field	HAF-332	HAF-332-1	1	104.1	NP	
Shooting Range Field	HAF-332	HAF-332-1.5	1.5	96.5	NP	
Shooting Range Field	HAF-332	HAF-332-2	2	104.4	NP	
Shooting Range Field	HAF-333	HAF-333-0 DUP	0	138.2	NP	
Shooting Range Field	HAF-333	HAF-333-0	0	75.9	NP	
Shooting Range Field	HAF-333	HAF-333-0.5	0.5	101.3	NP	
Shooting Range Field	HAF-333	HAF-333-1	1	102.3	NP	
Shooting Range Field	HAF-333	HAF-333-1.5	1.5	101	NP	
Shooting Range Field	HAF-333	HAF-333-2	2	79.8	NP	
Shooting Range Field	HAF-334	HAF-334-0 DUP	0	158.6	<0.1	1
Shooting Range Field	HAF-334	HAF-334-0	0	88.6	NP	
Shooting Range Field	HAF-334	HAF-334-0.5	0.5	83.9	NP	
Shooting Range Field	HAF-334	HAF-334-1	1	74.3	NP	
Shooting Range Field	HAF-334	HAF-334-1.5	1.5	67.3	NP	
Shooting Range Field	HAF-334	HAF-334-2	2	82.5	NP	
Shooting Range Field	HAF-335	HAF-335-0	0	32.4	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-335	HAF-335-0.5	0.5	49.9	NP	
Shooting Range Field	HAF-335	HAF-335-0.75	0.75	23.8	NP	
Shooting Range Field	HAF-335	HAF-335-1	1	21.3	NP	
Shooting Range Field	HAF-335	HAF-335-1.5	1.5	12.2	NP	
Shooting Range Field	HAF-335	HAF-335-2	2	50.4	NP	
Shooting Range Field	HAF-336	HAF-336-0	0	65.6	NP	0
Shooting Range Field	HAF-336	HAF-336-0.5	0.5	49.6	NP	0
Shooting Range Field	HAF-336	HAF-336-1	1	51.5	NP	0
Shooting Range Field	HAF-336	HAF-336-1.5	1.5	55.4	NP	0
Shooting Range Field	HAF-336	HAF-336-2	2	88.6	NP	0
Shooting Range Field	HAF-355	HAF-355-0	0	92	NP	0
Shooting Range Field	HAF-355	HAF-355-0.5	0.5	97.1	NP	0
Shooting Range Field	HAF-355	HAF-355-1	1	126.7	NP	0
Shooting Range Field	HAF-355	HAF-355-1.5	1.5	71.3	NP	0
Shooting Range Field	HAF-355	HAF-355-2	2	117.3	NP	0
Shooting Range Field	HAF-364	HAF-364-0	0	79.6	NP	0
Shooting Range Field	HAF-364	HAF-364-0.5	0.5	82.6	NP	0
Shooting Range Field	HAF-364	HAF-364-1	1	52.1	NP	0
Shooting Range Field	HAF-364	HAF-364-1.5	1.5	85.6	NP	0
Shooting Range Field	HAF-364	HAF-364-2	2	131.5	NP	0
Shooting Range Field	HAF-373	HAF-373-0	0	48	NP	0
Shooting Range Field	HAF-373	HAF-373-0.5	0.5	61.5	NP	0
Shooting Range Field	HAF-373	HAF-373-1	1	76.8	NP	0
Shooting Range Field	HAF-373	HAF-373-1.5	1.5	72.8	NP	0
Shooting Range Field	HAF-373	HAF-373-2	2	106.6	NP	0
Shooting Range Field	HAF-382	HAF-382-0	0	48.4	NP	0
Shooting Range Field	HAF-382	HAF-382-0.5	0.5	40.2	NP	0
Shooting Range Field	HAF-382	HAF-382-1	1	64.2	NP	0
Shooting Range Field	HAF-382	HAF-382-1.5	1.5	88.3	NP	0
Shooting Range Field	HAF-382	HAF-382-2	2	34.2	NP	0
Shooting Range Field	HAF-391	HAF-391-0	0	51.7	NP	0
Shooting Range Field	HAF-391	HAF-391-0.5	0.5	68.5	NP	0
Shooting Range Field	HAF-391	HAF-391-1	1	72.1	NP	0
Shooting Range Field	HAF-391	HAF-391-1.5	1.5	91.4	NP	0
Shooting Range Field	HAF-391	HAF-391-2	2	127.3	NP	0
Shooting Range Field	HAF-400	HAF-400-0	0	23.2	NP	0
Shooting Range Field	HAF-400	HAF-400-0.5	0.5	58.4	NP	0
Shooting Range Field	HAF-400	HAF-400-1	1	56.3	NP	0
Shooting Range Field	HAF-400	HAF-400-1.5	1.5	62.7	NP	0

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	HAF-400	HAF-400-2	2	85.6	NP	0
Shooting Range Field	HAF-409	HAF-409-0	0	20.5	NP	0
Shooting Range Field	HAF-409	HAF-409-0.5	0.5	52.4	NP	0
Shooting Range Field	HAF-409	HAF-409-1	1	48	NP	0
Shooting Range Field	HAF-409	HAF-409-1.5	1.5	45.4	NP	0
Shooting Range Field	HAF-409	HAF-409-2	2	55.7	NP	0
Shooting Range Field	HAF-418	HAF-418-0	0	28.2	NP	0
Shooting Range Field	HAF-418	HAF-418-0.5	0.5	42.2	NP	0
Shooting Range Field	HAF-418	HAF-418-1	1	54.9	NP	0
Shooting Range Field	HAF-418	HAF-418-1.5	1.5	65.6	NP	0
Shooting Range Field	HAF-418	HAF-418-2	2	77.8	NP	0
Shooting Range Field	T-A	T-A-0	0	375.9	2.6	35
Shooting Range Field	T-A	T-A-2.5	2.5	117.2	<0.1	2
Shooting Range Field	T-A	T-A-6	6	92.7	NP	
Shooting Range Field	T-B	T-B-0	0	199.1	NP	
Shooting Range Field	T-B	T-B-0 DUP	0	273.5	NP	
Shooting Range Field	T-B	T-B-2.5	2.5	124.3	NP	
Shooting Range Field	T-B	T-B-5	5	132.1	NP	
Shooting Range Field	T-C	T-C-0	0	230.3	NP	
Shooting Range Field	T-C	T-C-2	2	115.4	NP	
Shooting Range Field	T-C	T-C-4.5	4.5	171.5	NP	
Shooting Range Field	T-D	T-D-0	0	279.4	NP	
Shooting Range Field	T-D	T-D-2	2	253	NP	
Shooting Range Field	T-D	T-D-4	4	173.7	NP	
Shooting Range Field	TE-1M	TE-1M-0	0	246.2	0.1	3
Shooting Range Field	TE-1M	TE-1m-0 DUP	0	238.1	NP	
Shooting Range Field	TE-1M	TE-1m-0.5	0.5	180.1	NP	
Shooting Range Field	TE-1M	TE-1m-1	1	122.6	NP	
Shooting Range Field	TE-1M	TE-1m-1.5	1.5	178.2	NP	
Shooting Range Field	TE-1M	TE-1m-2	2	169.3	NP	
Shooting Range Field	TE-1N	TE-1N-0	0	449.7	0.8	17
Shooting Range Field	TE-1N	TE-1n-0.5	0.5	180.8	<0.1	1
Shooting Range Field	TE-1N	TE-1n-1	1	127.2	NP	
Shooting Range Field	TE-1N	TE-1n-1.5	1.5	163.8	NP	
Shooting Range Field	TE-1N	TE-1n-2	2	148.2	NP	
Shooting Range Field	TE-1S	TE-1S-0	0	153.7	NP	
Shooting Range Field	TE-1S	TE-1S-0.5	0.5	172.7	NP	
Shooting Range Field	TE-1S	TE-1s-1	1	243.6	NP	
Shooting Range Field	TE-1S	TE-1s-1.5	1.5	233.2	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TE-1S	TE-1s-2	2	324.4	NP	
Shooting Range Field	TE-2M	TE-2M-0	0	179.3	0.7	13
Shooting Range Field	TE-2M	TE-2M-0.5	0.5	160.1	0.2	6
Shooting Range Field	TE-2M	TE-2m-1	1	160.4	NP	
Shooting Range Field	TE-2M	TE-2m-1.5	1.5	164.74	NP	
Shooting Range Field	TE-2M	TE-2m-2	2	202.1	NP	
Shooting Range Field	TE-2N	TE-2N-0	0	198.1	0.4	11
Shooting Range Field	TE-2N	TE-2N-0 DUP	0	209.6	0.4	13
Shooting Range Field	TE-2N	TE-2N-0.5	0.5	185.7	<0.1	3
Shooting Range Field	TE-2N	TE-2n-1	1	188.4	<0.1	2
Shooting Range Field	TE-2N	TE-2n-1.5	1.5	106.3	NP	
Shooting Range Field	TE-2N	TE-2n-2	2	132.5	<0.1	1
Shooting Range Field	TE-2S	TE-2S-0	0	188	0.2	7
Shooting Range Field	TE-2S	TE-2S-0 DUP	0	171.1	0.4	8
Shooting Range Field	TE-2S	TE-2s-0.5	0.5	165.4	0.1	4
Shooting Range Field	TE-2S	TE-2s-1	1	155.6	NP	
Shooting Range Field	TE-2S	TE-2s-1.5	1.5	169.5	NP	
Shooting Range Field	TE-2S	TE-2s-2	2	188.4	NP	
Shooting Range Field	TE-3M	TE-3M-0	0	334.4	0.9	17
Shooting Range Field	TE-3M	TE-3M-0 DUP	0	232.5	0.3	9
Shooting Range Field	TE-3M	TE-3M-0.5	0.5	163.9	<0.1	5
Shooting Range Field	TE-3M	TE-3m-1	1	178.8	NP	
Shooting Range Field	TE-3M	TE-3m-1.5	1.5	98.9	NP	
Shooting Range Field	TE-3M	TE-3m-2	2	205.1	NP	
Shooting Range Field	TE-3N	TE-3N-0	0	379.6	<0.1	1
Shooting Range Field	TE-3N	TE-3n-0.5	0.5	316.7	NP	
Shooting Range Field	TE-3N	TE-3n-1	1	208.5	NP	
Shooting Range Field	TE-3N	TE-3n-1.5	1.5	171.5	NP	
Shooting Range Field	TE-3N	TE-3n-2	2	246	NP	
Shooting Range Field	TE-3S	TE-3S-0	0	170.9	0.8	10
Shooting Range Field	TE-3S	TE-3s-0.5	0.5	215.7	0.2	5
Shooting Range Field	TE-3S	TE-3s-1	1	155.4	NP	
Shooting Range Field	TE-3S	TE-3s-1.5	1.5	162.7	NP	
Shooting Range Field	TE-3S	TE-3s-2	2	181.9	NP	
Shooting Range Field	TF-89	TF-89-0	0	171.8	3.1	27
Shooting Range Field	TF-89	TF-89-0.5	0.5	110.3	2.1	23
Shooting Range Field	TF-89	TF-89-1	1	181.9	2.3	22
Shooting Range Field	TF-89	TF-89-1.5	1.5	164.7	NP	
Shooting Range Field	TF-89	TF-89-2	2	160.9	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TF-89	TF-89-2.5	2.5	143	NP	
Shooting Range Field	TF-114	TF-114-0	0	165	NP	
Shooting Range Field	TF-114	TF-114-0.5	0.5	147.9	NP	
Shooting Range Field	TF-114	TF-114-1	1	145.5	NP	
Shooting Range Field	TF-114	TF-114-1.5	1.5	232.3	NP	
Shooting Range Field	TF-114	TF-114-2	2	213.1	NP	
Shooting Range Field	TF-114	TF-114-2.5	2.5	199.2	NP	
Shooting Range Field	TF-114	TF-114-3	3	313.9	0.8	13
Shooting Range Field	TF-114	TF-114-3.5	3.5	184.5	NP	
Shooting Range Field	TF-141	TF-141-0	0	212.5	6.7	77
Shooting Range Field	TF-141	TF-141-0.5	0.5	229.4	9.5	110
Shooting Range Field	TF-141	TF-141-1	1	215.1	8.6	89
Shooting Range Field	TF-141	TF-141-1.5	1.5	204.7	<0.1	3
Shooting Range Field	TF-141	TF-141-2	2	180.5	<0.1	2
Shooting Range Field	TF-141	TF-141-2.5	2.5	232.1	NP	
Shooting Range Field	TF-146 QA/QC	TF-146 QA/QC-0	0	262	7.7	99
Shooting Range Field	TF-146 QA/QC	TF-146 QA/QC-0.5	0.5	342.7	7.6	107
Shooting Range Field	TF-146 QA/QC	TF-146 QA/QC-1	1	379.7	1.6	17
Shooting Range Field	TF-146 QA/QC	TF-146 QA/QC-1.5	1.5	390.8	NP	
Shooting Range Field	TF-146 QA/QC	TF-146 QA/QC-2	2	385.2	NP	
Shooting Range Field	TF-146 QA/QC	TF-146 QA/QC-2.5	2.5	303.3	NP	
Shooting Range Field	TF-146 QA/QC	TF-146 QA/QC-3	3	396.2	NP	
Shooting Range Field	TF-161	TF-161-0	0	309.9	2.7	25
Shooting Range Field	TF-161	TF-161-0.5	0.5	352.8	<0.1	2
Shooting Range Field	TF-161	TF-161-1	1	317.6	NP	
Shooting Range Field	TF-161	TF-161-1.5	1.5	336.8	NP	
Shooting Range Field	TF-161	TF-161-2	2	308.3	NP	
Shooting Range Field	TF-161	TF-161-2.5	2.5	300.2	NP	
Shooting Range Field	TF-172	TF-172-0	0	166.4	NP	
Shooting Range Field	TF-172	TF-172-0.5	0.5	163.6	2.4	46
Shooting Range Field	TF-172	TF-172-1	1	152.4	1.8	37
Shooting Range Field	TF-172	TF-172-1.5	1.5	166.8	1.1	17
Shooting Range Field	TF-172	TF-172-2	2	174.6	0.8	10
Shooting Range Field	TF-172	TF-172-2.5	2.5	290.3	NP	
Shooting Range Field	TF-193M	TF-193M-0	0	283.7	NP	
Shooting Range Field	TF-193M	TF-193m-0.5	0.5	171.4	<0.1	1
Shooting Range Field	TF-193M	TF-193m-1	1	217.9	NP	
Shooting Range Field	TF-193M	TF-193m-1.5	1.5	179.8	NP	
Shooting Range Field	TF-193M	TF-193m-2	2	230.7	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TF-193M	TF-193M-2.5	2.5	199.3	NP	
Shooting Range Field	TF-194M	TF-194m-0	0	233.3	NP	
Shooting Range Field	TF-194M	TF-194m-0.5	0.5	172.2	NP	
Shooting Range Field	TF-194M	TF-194m-1	1	181.2	NP	
Shooting Range Field	TF-194M	TF-194m-1.5	1.5	187.4	NP	
Shooting Range Field	TF-194M	TF-194m-2	2	251.3	NP	
Shooting Range Field	TF-194M	TF-194M-2.5	2.5	146.1	NP	
Shooting Range Field	TF-195M	TF-195M-0	0	302.7	<0.1	3
Shooting Range Field	TF-195M	TF-195m-0.5	0.5	291	NP	
Shooting Range Field	TF-195M	TF-195m-1	1	233.7	NP	
Shooting Range Field	TF-195M	TF-195m-1.5	1.5	292.9	NP	
Shooting Range Field	TF-195M	TF-195m-2	2	273.7	NP	
Shooting Range Field	TF-195M	TF-195M-2.5	2.5	242.6	NP	
Shooting Range Field	TF-196M	TF-196M-0	0	200.1	NP	
Shooting Range Field	TF-196M	TF-196m-0.5	0.5	181.8	NP	
Shooting Range Field	TF-196M	TF-196m-1	1	177.8	NP	
Shooting Range Field	TF-196M	TF-196m-1.5	1.5	222.3	NP	
Shooting Range Field	TF-196M	TF-196m-2	2	197.4	NP	
Shooting Range Field	TF-196M	TF-196M-2.5	2.5	371.1	NP	
Shooting Range Field	TF-197M	TF-197M-0	0	207.7	0.7	22
Shooting Range Field	TF-197M	TF-197M-0.5	0.5	173.2	0.1	2
Shooting Range Field	TF-197M	TF-197m-1	1	174.3	NP	
Shooting Range Field	TF-197M	TF-197m-1.5	1.5	210.9	NP	
Shooting Range Field	TF-197M	TF-197m-2	2	203.8	NP	
Shooting Range Field	TF-197M	TF-197M-2.5	2.5	270.4	NP	
Shooting Range Field	TF-198M	TF-198M-0	0	259.9	1.9	22
Shooting Range Field	TF-198M	TF-198M-0.5	0.5	278.7	<0.1	3
Shooting Range Field	TF-198M	TF-198m-1	1	405.9	NP	
Shooting Range Field	TF-198M	TF-198m-1.5	1.5	280.1	NP	
Shooting Range Field	TF-198M	TF-198m-2	2	175.9	<0.1	4
Shooting Range Field	TF-198M	TF-198M-2.5	2.5	137.2	NP	
Shooting Range Field	TF-199M	TF-199M-0 DUP	0	210.5	0.6	15
Shooting Range Field	TF-199M	TF-199M-0	0	253.1	3.8	~50
Shooting Range Field	TF-199M	TF-199M-0.5	0.5	220.4	<0.1	4
Shooting Range Field	TF-199M	TF-199M-1	1	280	NP	
Shooting Range Field	TF-199M	TF-199M-1.5	1.5	183	NP	
Shooting Range Field	TF-199M	TF-199m-2	2	180.4	NP	
Shooting Range Field	TF-199M	TF-199M-2.5	2.5	281	NP	
Shooting Range Field	TF-199N	TF-199N-0	0	314.9	5	70

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TF-199N	TF-199N-0.5	0.5	262.9	1.2	12
Shooting Range Field	TF-199N	TF-199N-1	1	277.1	NP	
Shooting Range Field	TF-199N	TF-199n-1.5	1.5	235.8	NP	
Shooting Range Field	TF-199N	TF-199n-2	2	202.5	NP	
Shooting Range Field	TF-199S	TF-199S-0	0	305.2	5.3	>50
Shooting Range Field	TF-199S	TF-199S-0.5	0.5	169.3	<0.1	7
Shooting Range Field	TF-199S	TF-199S-1	1	246.7	NP	
Shooting Range Field	TF-199S	TF-199S-1.5	1.5	294.4	NP	
Shooting Range Field	TF-199S	TF-199s-2	2	281.6	NP	
Shooting Range Field	TF-200M	TF-200M-0	0	285.4	9.6	125
Shooting Range Field	TF-200M	TF-200M-0.5	0.5	217.6	2.1	26
Shooting Range Field	TF-200M	TF-200M-1	1	279.3	NP	
Shooting Range Field	TF-200M	TF-200M-1.5	1.5	293	NP	
Shooting Range Field	TF-200M	TF-200m-2	2	312	NP	
Shooting Range Field	TF-200M	TF-200M-2.5	2.5	250.4	NP	
Shooting Range Field	TF-200N	TF-200N-0 DUP	0	277.5	2.3	38
Shooting Range Field	TF-200N	TF-200N-0	0	244.2	6.4	92
Shooting Range Field	TF-200N	TF-200N-0.5	0.5	196.4	3.4	51
Shooting Range Field	TF-200N	TF-200N-1	1	168.1	1.9	19
Shooting Range Field	TF-200N	TF-200n-1.5	1.5	164.6	NP	
Shooting Range Field	TF-200N	TF-200n-2	2	233.6	NP	
Shooting Range Field	TF-200S	TF-200S-0 DUP	0	194.8	2.2	37
Shooting Range Field	TF-200S	TF-200S-0	0	196.2	4.5	61
Shooting Range Field	TF-200S	TF-200S-0.5	0.5	322.1	1.2	12
Shooting Range Field	TF-200S	TF-200S-1	1	212.9	NP	
Shooting Range Field	TF-200S	TF-200S-1.5	1.5	304.9	NP	
Shooting Range Field	TF-200S	TF-200s-2	2	184.1	NP	
Shooting Range Field	TF-201M	TF-201m-0	0	229.6	5.4	78
Shooting Range Field	TF-201M	TF-201M-0 DUP	0	266.8	3.1	53
Shooting Range Field	TF-201M	TF-201M-0.5	0.5	192.3	0.1	3
Shooting Range Field	TF-201M	TF-201M-1	1	178.6	0.4	7
Shooting Range Field	TF-201M	TF-201m-1.5	1.5	177.1	NP	
Shooting Range Field	TF-201M	TF-201m-2	2	172.1	NP	
Shooting Range Field	TF-201M	TF-201M-2.5	2.5	164.7	NP	
Shooting Range Field	TF-201N	TF-201N-0	0	330.7	4.7	69
Shooting Range Field	TF-201N	TF-201N-0.5	0.5	421	<0.1	7
Shooting Range Field	TF-201N	TF-201N-1	1	269.5	<0.1	8
Shooting Range Field	TF-201N	TF-201N-1.5	1.5	270.3	NP	
Shooting Range Field	TF-201N	TF-201N-2	2	246.7	<0.1	6

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TF-201N	TF-201N-2.5	2.5	350.1	NP	
Shooting Range Field	TF-201S	TF-201S-0	0	271.8	6.7	79
Shooting Range Field	TF-201S	TF-201S-0.5	0.5	301.8	2.3	32
Shooting Range Field	TF-201S	TF-201S-1	1	153	<0.1	3
Shooting Range Field	TF-201S	TF-201s-1.5	1.5	311.8	NP	
Shooting Range Field	TF-201S	TF-201s-2	2	274	NP	
Shooting Range Field	TF-202M	TF-202M-0	0	300.7	6.2	78
Shooting Range Field	TF-202M	TF-202M-0.5	0.5	283.2	1.7	29
Shooting Range Field	TF-202M	TF-202M-1	1	300.6	<0.1	3
Shooting Range Field	TF-202M	TF-202M-1.5	1.5	251	<0.1	5
Shooting Range Field	TF-202M	TF-202m-2	2	287.1	NP	
Shooting Range Field	TF-202M	TF-202M-2.5	2.5	160	NP	
Shooting Range Field	TF-202N	TF-202N-0	0	230	3.3	43
Shooting Range Field	TF-202N	TF-202N-0 DUP	0	212	6.1	36
Shooting Range Field	TF-202N	TF-202N-0.5	0.5	255.6	5.1	91
Shooting Range Field	TF-202N	TF-202N-1	1	190.1	1.6	18
Shooting Range Field	TF-202N	TF-202N-1.5	1.5	186.6	0.3	6
Shooting Range Field	TF-202N	TF-202N-2	2	187.3	0.2	4
Shooting Range Field	TF-202N	TF-202N-2.5	2.5	143.3	NP	
Shooting Range Field	TF-202S	TF-202S-0 DUP	0	194.4	17.3	193
Shooting Range Field	TF-202S	TF-202S-0	0	292.1	14	200
Shooting Range Field	TF-202S	TF-202S-0.5	0.5	191.5	0.1	3
Shooting Range Field	TF-202S	TF-202S-1	1	214.2	0.2	4
Shooting Range Field	TF-202S	TF-202s-1.5	1.5	223.6	NP	
Shooting Range Field	TF-202S	TF-202s-2	2	195.1	0.1	3
Shooting Range Field	TF-203M	TF-203M-0	0	262.2	7	105
Shooting Range Field	TF-203M	TF-203M-0.5	0.5	318	1.8	19
Shooting Range Field	TF-203M	TF-203M-1	1	291.7	<0.1	1
Shooting Range Field	TF-203M	TF-203m-1.5	1.5	278.9	NP	
Shooting Range Field	TF-203M	TF-203m-2	2	336.5	NP	
Shooting Range Field	TF-203M	TF-203M-2.5	2.5	235	NP	
Shooting Range Field	TF-203N	TF-203N-0	0	209.4	3	45
Shooting Range Field	TF-203N	TF-203N-0.5	0.5	276.4	1.3	19
Shooting Range Field	TF-203N	TF-203N-1	1	353.1	0.2	10
Shooting Range Field	TF-203N	TF-203n-1.5	1.5	231.7	<0.1	2
Shooting Range Field	TF-203N	TF-203n-2 DUP	2	265.5	NP	
Shooting Range Field	TF-203N	TF-203n-2	2	340.1	NP	
Shooting Range Field	TF-203S	TF-203S-0	0	296.1	3.5	50
Shooting Range Field	TF-203S	TF-203S-0.5	0.5	373.7	2.4	~35

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TF-203S	TF-203S-1	1	329.7	NP	
Shooting Range Field	TF-203S	TF-203s-1.5	1.5	231.3	NP	
Shooting Range Field	TF-203S	TF-203s-2	2	136.4	NP	
Shooting Range Field	TF-204M	TF-204M-0	0	191.8	2.6	38
Shooting Range Field	TF-204M	TF-204M-0.5	0.5	286.4	0.1	4
Shooting Range Field	TF-204M	TF-204m-1	1	224.8	NP	
Shooting Range Field	TF-204M	TF-204m-1.5	1.5	184.2	NP	
Shooting Range Field	TF-204M	TF-204m-2	2	203.2	NP	
Shooting Range Field	TF-204M	TF-204m-2 DUP	2	165.7	NP	
Shooting Range Field	TF-204M	TF-204M-2.5	2.5	148	NP	
Shooting Range Field	TF-204N	TF-204N-0	0	175.8	2.7	39
Shooting Range Field	TF-204N	TF-204N-0.5	0.5	257.1	<0.1	1
Shooting Range Field	TF-204N	TF-204N-1	1	232.4	NP	
Shooting Range Field	TF-204N	TF-204n-1.5	1.5	277.3	NP	
Shooting Range Field	TF-204N	TF-204n-2	2	187.6	NP	
Shooting Range Field	TF-204S	TF-204S-0	0	211.1	2.1	28
Shooting Range Field	TF-204S	TF-204S-0.5	0.5	351.2	<0.1	3
Shooting Range Field	TF-204S	TF-204S-1	1	239.7	0.2	10
Shooting Range Field	TF-204S	TF-204S-1.5	1.5	247.6	<0.1	2
Shooting Range Field	TF-204S	TF-204s-2	2	176.9	<0.1	4
Shooting Range Field	TF-205M	TF-205M-0	0	298.3	3.6	47
Shooting Range Field	TF-205M	TF-205M-0.5	0.5	254.2	<0.1	2
Shooting Range Field	TF-205M	TF-205M-1	1	276.6	NP	
Shooting Range Field	TF-205M	TF-205m-1.5	1.5	282.8	NP	
Shooting Range Field	TF-205M	TF-205M-2 DUP	2	276.3	NP	
Shooting Range Field	TF-205M	TF-205m-2	2	332.1	NP	
Shooting Range Field	TF-205M	TF-205M-2.5	2.5	209.9	NP	
Shooting Range Field	TF-205N	TF-205N-0	0	281.6	3.8	49
Shooting Range Field	TF-205N	TF-205N-0.5	0.5	452.8	0.7	13
Shooting Range Field	TF-205N	TF-205N-1	1	281.9	0.2	5
Shooting Range Field	TF-205N	TF-205n-1.5	1.5	254.4	NP	
Shooting Range Field	TF-205N	TF-205n-2	2	223.5	NP	
Shooting Range Field	TF-205S	TF-205S-0	0	288.6	2.3	23
Shooting Range Field	TF-205S	TF-205S-0.5	0.5	306.4	0.9	13
Shooting Range Field	TF-205S	TF-205s-1	1	312.6	NP	
Shooting Range Field	TF-205S	TF-205s-1.5	1.5	245.3	NP	
Shooting Range Field	TF-205S	TF-205s-2	2	152.4	NP	
Shooting Range Field	TF-223	TF-223-0	0	375.2	2.1	35
Shooting Range Field	TF-223	TF-223-0.5	0.5	331.7	0.7	15

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TF-223	TF-223-1	1	233.3	NP	
Shooting Range Field	TF-223	TF-223-1.5	1.5	300.9	NP	
Shooting Range Field	TF-223	TF-223-2	2	176.6	NP	
Shooting Range Field	TF-223	TF-223-2.5	2.5	222.8	NP	
Shooting Range Field	TF-223	TF-223-3	3	286.1	NP	
Shooting Range Field	TF-225	TF-225-0	0	226.8	2.3	>45
Shooting Range Field	TF-225	TF-225-0.5	0.5	272.7	NP	
Shooting Range Field	TF-225	TF-225-1	1	197.1	NP	
Shooting Range Field	TF-225	TF-225-1.5	1.5	236.4	NP	
Shooting Range Field	TF-225	TF-225-2	2	243.7	NP	
Shooting Range Field	TF-225	TF-225-2.5	2.5	159.5	NP	
Shooting Range Field	TF-225	TF-225-3	3	217.5	NP	
Shooting Range Field	TF-226	TF-226-0	0	237.8	5.3	53
Shooting Range Field	TF-226	TF-226-0.5	0.5	311.7	<0.1	4
Shooting Range Field	TF-226	TF-226-1	1	274.6	<0.1	2
Shooting Range Field	TF-226	TF-226-1.5	1.5	310.5	<0.1	2
Shooting Range Field	TF-226	TF-226-2	2	223.5	NP	
Shooting Range Field	TF-226	TF-226-2.5	2.5	259.8	NP	
Shooting Range Field	TF-226	TF-226-3	3	347.7	NP	
Shooting Range Field	TF-240	TF-240-0.5	0.5	286.6	NP	
Shooting Range Field	TF-246	TF-246-0	0	350.9	3.4	37
Shooting Range Field	TF-246	TF-246-0.5	0.5	470.3	<0.1	3
Shooting Range Field	TF-246	TF-246-1	1	448.7	NP	
Shooting Range Field	TF-246	TF-246-1.5	1.5	310.8	NP	
Shooting Range Field	TF-246	TF-246-2	2	242.3	NP	
Shooting Range Field	TF-246	TF-246-2.5	2.5	305.6	NP	
Shooting Range Field	TF-246	TF-246-3	3	176.3	NP	
Shooting Range Field	TF-247	TF-247-0	0	240.9	3.2	>40
Shooting Range Field	TF-247	TF-247-0.5	0.5	276.4	0.1	2
Shooting Range Field	TF-247	TF-247-1	1	224.1	NP	
Shooting Range Field	TF-247	TF-247-1.5	1.5	227.9	0.1	3
Shooting Range Field	TF-247	TF-247-2	2	138.3	NP	
Shooting Range Field	TF-247	TF-247-2.5	2.5	175.8	NP	
Shooting Range Field	TF-247	TF-247-3	3	245.8	NP	
Shooting Range Field	TF-265	TF-265-0	0	315.2	NP	
Shooting Range Field	TF-265	TF-265-0.5	0.5	365.1	NP	
Shooting Range Field	TF-265	TF-265-1	1	350.5	NP	
Shooting Range Field	TF-265	TF-265-1.5	1.5	336.1	NP	
Shooting Range Field	TF-265	TF-265-2	2	259.7	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TF-265	TF-265-2.5	2.5	203.9	NP	
Shooting Range Field	TF-265	TF-265-3	3	259.2	NP	
Shooting Range Field	TF-266	TF-266-0	0	250.3	1.4	20
Shooting Range Field	TF-266	TF-266-0.5	0.5	313.8	NP	
Shooting Range Field	TF-266	TF-266-1	1	308.9	NP	
Shooting Range Field	TF-266	TF-266-1.5	1.5	284.7	NP	
Shooting Range Field	TF-266	TF-266-2	2	236.8	NP	
Shooting Range Field	TF-266	TF-266-2.5	2.5	342.2	NP	
Shooting Range Field	TF-266	TF-266-3	3	393.1	NP	
Shooting Range Field	TF-267	TF-267-0	0	197.3	1.2	17
Shooting Range Field	TF-267	TF-267-0.5	0.5	223	NP	
Shooting Range Field	TF-267	TF-267-1	1	268.9	NP	
Shooting Range Field	TF-267	TF-267-1.5	1.5	256.6	NP	
Shooting Range Field	TF-267	TF-267-2	2	322.4	NP	
Shooting Range Field	TF-267	TF-267-2.5	2.5	308	NP	
Shooting Range Field	TF-267	TF-267-3	3	194.8	NP	
Shooting Range Field	TN-1M	TN-1M-0	0	222.2	1.9	20
Shooting Range Field	TN-1M	TN-1M-0.5	0.5	225.3	<0.1	3
Shooting Range Field	TN-1M	TN-1m-1	1	197.7	<0.1	2
Shooting Range Field	TN-1M	TN-1M-1.5	1.5	189.3	<0.1	1
Shooting Range Field	TN-1M	TN-1m-2	2	235	<0.1	2
Shooting Range Field	TN-1N	TN-1N-0	0	122.1	<0.1	5
Shooting Range Field	TN-1N	TN-1N-0.5	0.5	164.36	0.9	10
Shooting Range Field	TN-1N	TN-1n-1	1	188.8	NP	
Shooting Range Field	TN-1N	TN-1n-1.5	1.5	208.4	<0.1	1
Shooting Range Field	TN-1N	TN-1N-2	2	244.2	<0.1	8
Shooting Range Field	TN-1N	TN-1n-2.5	2.5	218	NP	
Shooting Range Field	TN-1S	TN-1S-0	0	178.2	NP	
Shooting Range Field	TN-1S	TN-1s-0.5	0.5	237.8	NP	
Shooting Range Field	TN-1S	TN-1s-1	1	246.5	NP	
Shooting Range Field	TN-1S	TN-1s-1.5	1.5	159.2	NP	
Shooting Range Field	TN-1S	TN-1s-2	2	216.4	NP	
Shooting Range Field	TN-2M	TN-2M-0	0	179.8	2.1	>50
Shooting Range Field	TN-2M	TN-2M-0.5	0.5	131.3	2.6	>50
Shooting Range Field	TN-2M	TN-2M-1	1	188.1	3.1	50
Shooting Range Field	TN-2M	TN-2M-1.5	1.5	201.3	1.1	27
Shooting Range Field	TN-2M	TN-2M-2	2	173.2	0.1	3
Shooting Range Field	TN-2M	TN-2m-2.5	2.5	208.2	NP	
Shooting Range Field	TN-2N	TN-2N-0	0	151.6	1.3	28

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Shooting Range Field	TN-2N	TN-2N-0.5	0.5	311.9	4.3	>100
Shooting Range Field	TN-2N	TN-2N-1	1	272.6	2.1	>40
Shooting Range Field	TN-2N	TN-2N-1.5	1.5	269.7	2.7	>50
Shooting Range Field	TN-2N	TN-2N-2	2	176.3	0.3	9
Shooting Range Field	TN-2N	TN-2n-2.5	2.5	184.5	NP	
Shooting Range Field	TN-2S	TN-2S-0	0	228.5	6.5	81
Shooting Range Field	TN-2S	TN-2S-0.5	0.5	235.2	6.9	85
Shooting Range Field	TN-2S	TN-2S-1	1	259.9	6.3	72
Shooting Range Field	TN-2S	TN-2S-1.5	1.5	162.4	5.5	59
Shooting Range Field	TN-2S	TN-2S-2	2	197.9	0.6	11
Shooting Range Field	TN-2S	TN-2s-2.5	2.5	245	NP	
Shooting Range Field	TN-3M	TN-3M-0	0	245.9	7.1	92
Shooting Range Field	TN-3M	TN-3M-0.5	0.5	308.1	9.2	130
Shooting Range Field	TN-3M	TN-3M-1	1	217.2	5.5	74
Shooting Range Field	TN-3M	TN-3M-1.5	1.5	206.8	<0.1	2
Shooting Range Field	TN-3M	TN-3m-2	2	577.1	0.3	5
Shooting Range Field	TN-3N	TN-3N-0	0	274.8	2.7	46
Shooting Range Field	TN-3N	TN-3N-0.5	0.5	159.4	3.8	>75
Shooting Range Field	TN-3N	TN-3N-1	1	327.9	2.8	>50
Shooting Range Field	TN-3N	TN-3N-1.5	1.5	161	NP	
Shooting Range Field	TN-3N	TN-3n-2	2	259.8	0.2	4
Shooting Range Field	TN-3S	TN-3S-0	0	213.1	2	42
Shooting Range Field	TN-3S	TN-3S-0.5	0.5	239.6	2.7	48
Shooting Range Field	TN-3S	TN-3S-1	1	253	3.2	>50
Shooting Range Field	TN-3S	TN-3S-1.5	1.5	257.2	1.4	34
Shooting Range Field	TN-3S	TN-3S-2	2	378.6	0.3	7
Shooting Range Field	TN-3S	TN-3s-2.5	2.5	248.5	NP	
Target Debris Field	HAT-1	HAT-1-0	0	168.2	NP	
Target Debris Field	HAT-1	HAT-1-0.5	0.5	230.2	NP	
Target Debris Field	HAT-1	HAT-1-1	1	238.1	NP	
Target Debris Field	HAT-1	HAT-1-1.5	1.5	222	NP	
Target Debris Field	HAT-2	HAT-2-0	0	159.7	NP	
Target Debris Field	HAT-2	HAT-2-0.5	0.5	279.6	NP	
Target Debris Field	HAT-2	HAT-2-1	1	118.8	NP	
Target Debris Field	HAT-3	HAT-3-0	0	109	NP	
Target Debris Field	HAT-3	HAT-3-0.5	0.5	177	NP	
Target Debris Field	HAT-3	HAT-3-1	1	219	NP	
Target Debris Field	HAT-3	HAT-3-1.5	1.5	163	NP	
Target Debris Field	HAT-3	HAT-3-2	2	118	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Target Debris Field	HAT-4	HAT-4-0	0	102	NP	
Target Debris Field	HAT-4	HAT-4-0.5	0.5	184	NP	
Target Debris Field	HAT-4	HAT-4-1	1	270	NP	
Target Debris Field	HAT-4	HAT-4-1.5	1.5	243	NP	
Target Debris Field	HAT-4	HAT-4-2	2	165	NP	
Target Debris Field	HAT-5	HAT-5-0	0	104	NP	
Target Debris Field	HAT-5	HAT-5-0.5	0.5	134	NP	
Target Debris Field	HAT-5	HAT-5-1	1	145	NP	
Target Debris Field	HAT-5	HAT-5-1.5	1.5	262	NP	
Target Debris Field	HAT-5	HAT-5-2	2	257	NP	
Target Debris Field	HAT-6	HAT-6-0	0	120	NP	
Target Debris Field	HAT-6	HAT-6-0.5	0.5	217	NP	
Target Debris Field	HAT-6	HAT-6-1	1	210	NP	
Target Debris Field	HAT-7	HAT-7-0	0	113	NP	
Target Debris Field	HAT-7	HAT-7-0.5 DUP	0.5	132	NP	
Target Debris Field	HAT-7	HAT-7-0.5	0.5	113	NP	
Target Debris Field	HAT-7	HAT-7-1	1	207	NP	
Target Debris Field	HAT-7	HAT-7-1.5	1.5	217	NP	
Target Debris Field	HAT-8	HAT-8-0	0	110.4	NP	
Target Debris Field	HAT-8	HAT-8-0.5	0.5	235.6	NP	
Target Debris Field	HAT-8	HAT-8-1	1	253.2	NP	
Target Debris Field	HAT-8	HAT-8-1.5	1.5	246.6	NP	
Target Debris Field	HAT-9	HAT-9-0	0	105	NP	
Target Debris Field	HAT-9	HAT-9-0.5	0.5	242	NP	
Target Debris Field	HAT-9	HAT-9-1	1	245	NP	
Target Debris Field	HAT-10	HAT-10-0	0	93.2	NP	
Target Debris Field	HAT-10	HAT-10-0.5	0.5	95.5	NP	
Target Debris Field	HAT-10	HAT-10-0.5 DUP	0.5	87.6	NP	
Target Debris Field	HAT-10	HAT-10-1	1	132.9	NP	
Target Debris Field	HAT-11	HAT-11-0	0	122.2	NP	
Target Debris Field	HAT-11	HAT-11-0.5	0.5	237.5	NP	
Target Debris Field	HAT-11	HAT-11-1	1	244.1	NP	
Target Debris Field	HAT-11	HAT-11-1.5	1.5	243	NP	
Target Debris Field	HAT-11	HAT-11-2	2	170.9	NP	
Target Debris Field	HAT-12	HAT-12-0	0	98.6	NP	
Target Debris Field	HAT-13	HAT-13-0	0	157	NP	
Target Debris Field	HAT-13	HAT-13-0.5	0.5	129	NP	
Target Debris Field	HAT-13	HAT-13-0.5 DUP	0.5	128	NP	
Target Debris Field	HAT-14A	HAT-14A-0	0	75	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Target Debris Field	HAT-14A	HAT-14A-0.5	0.5	116	NP	
Target Debris Field	HAT-14A	HAT-14A-0.5 DUP	0.5	112	NP	
Target Debris Field	HAT-14B	HAT-14B-0	0	86.8	NP	
Target Debris Field	HAT-14B	HAT-14B-0.5	0.5	195.5	NP	
Target Debris Field	HAT-14B	HAT-14B-1	1	174.2	NP	
Target Debris Field	HAT-15	HAT-15-0	0	93.6	NP	
Target Debris Field	HAT-15	HAT-15-0.5	0.5	181.6	NP	
Target Debris Field	HAT-15	HAT-15-1	1	218.1	NP	
Target Debris Field	HAT-16	HAT-16-0	0	102.9	NP	
Target Debris Field	HAT-16	HAT-16-0.5	0.5	166.1	NP	
Target Debris Field	HAT-16	HAT-16-1	1	123.1	NP	
Target Debris Field	HAT-16	HAT-16-1.5	1.5	108.8	NP	
Target Debris Field	HAT-16	HAT-16-2	2	222.6	NP	
Target Debris Field	HAT-17	HAT-17-0	0	84	NP	
Target Debris Field	HAT-17	HAT-17-0.5 DUP	0.5	119.8	NP	
Target Debris Field	HAT-17	HAT-17-0.5	0.5	81.2	NP	
Target Debris Field	HAT-18	HAT-18-0	0	104.5	NP	
Target Debris Field	HAT-18	HAT-18-0.5 DUP	0.5	68.5	NP	
Target Debris Field	HAT-18	HAT-18-0.5	0.5	95.7	NP	
Target Debris Field	HAT-18	HAT-18-1	1	293.9	NP	
Target Debris Field	HAT-18	HAT-18-1.5	1.5	284.8	NP	
Target Debris Field	HAT-18	HAT-18-2	2	279.4	NP	
Target Debris Field	HAT-19	HAT-19-0	0	95.1	NP	
Target Debris Field	HAT-19	HAT-19-0.5	0.5	120.4	NP	
Target Debris Field	HAT-19	HAT-19-0.5 DUP	0.5	114.4	NP	
Target Debris Field	HAT-20	HAT-20-0	0	87.2	NP	
Target Debris Field	HAT-20	HAT-20-0.5 DUP	0.5	99.7	NP	
Target Debris Field	HAT-20	HAT-20-0.5	0.5	221.2	NP	
Target Debris Field	HAT-20	HAT-20-1	1	182.7	NP	
Target Debris Field	HAT-20	HAT-20-1.5	1.5	219.7	NP	
Target Debris Field	HAT-20	HAT-20-2	2	179	NP	
Target Debris Field	HAT-21	HAT-21-0	0	96.2	NP	
Target Debris Field	HAT-21	HAT-21-0.5	0.5	210.5	NP	
Target Debris Field	HAT-21	HAT-21-1	1	200.8	NP	
Target Debris Field	HAT-21	HAT-21-1.5	1.5	180.4	NP	
Target Debris Field	HAT-21	HAT-21-2	2	206.4	NP	
Target Debris Field	HAT-22	HAT-22-0	0	111	NP	
Target Debris Field	HAT-22	HAT-22-0.5	0.5	208	NP	
Target Debris Field	HAT-22	HAT-22-1	1	212	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Target Debris Field	HAT-22	HAT-22-1.5	1.5	240	NP	
Target Debris Field	HAT-23	HAT-23-0	0	86.9	NP	
Target Debris Field	HAT-23	HAT-23-0.5	0.5	88.1	NP	
Target Debris Field	HAT-23	HAT-23-0.5 DUP	0.5	103.7	NP	
Target Debris Field	HAT-23	HAT-23-1	1	113.3	NP	
Target Debris Field	HAT-24	HAT-24-0	0	96.9	NP	
Target Debris Field	HAT-24	HAT-24-0.5	0.5	210.2	NP	
Target Debris Field	HAT-24	HAT-24-1	1	189.4	NP	
Target Debris Field	HAT-24	HAT-24-1.5	1.5	221.4	NP	
Target Debris Field	HAT-24	HAT-24-2	2	241	NP	
Target Debris Field	HAT-25	HAT-25-0	0	123	NP	
Target Debris Field	HAT-25	HAT-25-0.5	0.5	180	NP	
Target Debris Field	HAT-25	HAT-25-1	1	278	NP	
Target Debris Field	HAT-25	HAT-25-1.5	1.5	304	NP	
Target Debris Field	HAT-25	HAT-25-2	2	297	NP	
Target Debris Field	HAT-26	HAT-26-0	0	114	NP	
Target Debris Field	HAT-26	HAT-26-0.5	0.5	114	NP	
Target Debris Field	HAT-26	HAT-26-0.5 DUP	0.5	119.8	NP	
Target Debris Field	HAT-26	HAT-26-1	1	217	NP	
Target Debris Field	HAT-26	HAT-26-1.5	1.5	200	NP	
Target Debris Field	HAT-26	HAT-26-2	2	265	NP	
Target Debris Field	HAT-27	HAT-27-0	0	127.6	NP	
Target Debris Field	HAT-27	HAT-27-0.5	0.5	99.8	NP	
Target Debris Field	HAT-27	HAT-27-0.5 DUP	0.5	110.9	NP	
Target Debris Field	HAT-27	HAT-27-1	1	201.9	NP	
Target Debris Field	HAT-27	HAT-27-1.5	1.5	100.9	NP	
Target Debris Field	HAT-28	HAT-28-0	0	107.5	NP	
Target Debris Field	HAT-28	HAT-28-0.5 DUP	0.5	126.3	NP	
Target Debris Field	HAT-28	HAT-28-0.5	0.5	124	NP	
Target Debris Field	HAT-28	HAT-28-1	1	176.8	NP	
Target Debris Field	HAT-28	HAT-28-1.5	1.5	230	NP	
Target Debris Field	HAT-28	HAT-28-2	2	121.1	NP	
Target Debris Field	HAT-29	HAT-29-0	0	113	NP	
Target Debris Field	HAT-29	HAT-29-0.5	0.5	108	NP	
Target Debris Field	HAT-29	HAT-29-0.5 DUP	0.5	100	NP	
Target Debris Field	HAT-29	HAT-29-1	1	245	NP	
Target Debris Field	HAT-29	HAT-29-1.5	1.5	244	NP	
Target Debris Field	HAT-29	HAT-29-2	2	215	NP	
Target Debris Field	HAT-30	HAT-30-0	0	78.5	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Target Debris Field	HAT-30	HAT-30-0.5	0.5	94	NP	
Target Debris Field	HAT-30	HAT-30-0.5 DUP	0.5	107.5	NP	
Target Debris Field	HAT-30	HAT-30-1	1	239.9	NP	
Target Debris Field	HAT-30	HAT-30-1.5	1.5	248.7	NP	
Target Debris Field	HAT-31	HAT-31-0	0	111	NP	
Target Debris Field	HAT-31	HAT-31-0.5	0.5	213	NP	
Target Debris Field	HAT-32	HAT-32-0	0	105.2	NP	
Target Debris Field	HAT-32	HAT-32-0.5 DUP	0.5	125.8	NP	
Target Debris Field	HAT-32	HAT-32-0.5	0.5	113.4	NP	
Target Debris Field	HAT-32	HAT-32-1	1	176.7	NP	
Target Debris Field	HAT-32	HAT-32-1.5	1.5	171.1	NP	
Target Debris Field	HAT-33	HAT-33-0	0	104.3	0.1	2
Target Debris Field	HAT-33	HAT-33-0.5	0.5	246.9	NP	
Target Debris Field	HAT-34	HAT-34-0	0	81	NP	
Target Debris Field	HAT-34	HAT-34-0.5	0.5	225	NP	
Target Debris Field	HAT-34	HAT-34-1	1	212	NP	
Target Debris Field	HAT-35	HAT-35-0	0	132.4	NP	
Target Debris Field	HAT-35	HAT-35-0.5	0.5	280	NP	
Target Debris Field	HAT-35	HAT-35-1	1	289.4	NP	
Target Debris Field	HAT-35	HAT-35-1.5	1.5	271.1	NP	
Target Debris Field	HAT-35	HAT-35-2	2	286.1	NP	
Target Debris Field	HAT-36	HAT-36-0	0	108.1	NP	
Target Debris Field	HAT-36	HAT-36-0.5	0.5	222.6	NP	
Target Debris Field	HAT-37	HAT-37-0	0	99	NP	
Target Debris Field	HAT-37	HAT-37-0.5	0.5	175	NP	
Target Debris Field	HAT-37	HAT-37-1	1	189	NP	
Target Debris Field	HAT-37	HAT-37-1.5	1.5	158	NP	
Target Debris Field	HAT-37	HAT-37-2	2	148	NP	
Target Debris Field	HAT-38	HAT-38-0	0	264.4	NP	
Target Debris Field	HAT-38	HAT-38-0.5	0.5	351	NP	
Target Debris Field	HAT-39	HAT-39-0	0	100.2	NP	
Target Debris Field	HAT-39	HAT-39-0.5	0.5	188.2	NP	
Target Debris Field	HAT-39	HAT-39-1	1	235.7	NP	
Target Debris Field	HAT-39	HAT-39-1.5	1.5	243.3	NP	
Target Debris Field	HAT-39	HAT-39-2	2	197.4	NP	
Target Debris Field	HAT-40	HAT-40-0	0	111.1	NP	
Target Debris Field	HAT-40	HAT-40-0.5	0.5	212.4	NP	
Target Debris Field	HAT-41	HAT-41-0	0	98.4	NP	
Target Debris Field	HAT-41	HAT-41-0.5 DUP	0.5	104.1	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Target Debris Field	HAT-41	HAT-41-0.5	0.5	88.8	NP	
Target Debris Field	HAT-41	HAT-41-1	1	216.4	NP	
Target Debris Field	HAT-41	HAT-41-1.5	1.5	311.1	NP	
Target Debris Field	HAT-41	HAT-41-2	2	277.7	NP	
Target Debris Field	HAT-42	HAT-42-0	0	117.4	NP	
Target Debris Field	HAT-42	HAT-42-0.5 DUP	0.5	77.2	NP	
Target Debris Field	HAT-42	HAT-42-0.5	0.5	75.2	NP	
Target Debris Field	HAT-42	HAT-42-1	1	287.3	NP	
Target Debris Field	HAT-42	HAT-42-1.5	1.5	294.6	NP	
Target Debris Field	HAT-42	HAT-42-2	2	228.5	NP	
Target Debris Field	HAT-43	HAT-43-0 ng	0		NP	
Target Debris Field	HAT-43	HAT-43-0 g	0		NP	
Target Debris Field	HAT-43	HAT-43-0.5 g	0.5		NP	
Target Debris Field	HAT-43	HAT-43-0.5 ng	0.5		NP	
Target Debris Field	HAT-43	HAT-43-1 ng	1		NP	
Target Debris Field	HAT-43	HAT-43-1 g	1		NP	
Target Debris Field	HAT-43	HAT-43-1.5 g	1.5		NP	
Target Debris Field	HAT-43	HAT-43-1.5 ng	1.5		NP	
Target Debris Field	HAT-43	HAT-43-2 ng	2		NP	
Target Debris Field	HAT-43	HAT-43-2 g	2		NP	
Target Debris Field	HAT-44	HAT-44-0	0	108.9	<0.1	1
Target Debris Field	HAT-44	HAT-44-0.5	0.5	102.4	NP	
Target Debris Field	HAT-44	HAT-44-0.5 DUP	0.5	113.1	NP	
Target Debris Field	HAT-44	HAT-44-1	1	226.4	NP	
Target Debris Field	HAT-45	HAT-45-0	0	102.2	NP	
Target Debris Field	HAT-45	HAT-45-0.5	0.5	461.4	NP	
Target Debris Field	HAT-45	HAT-45-1	1	461	NP	
Target Debris Field	HAT-45	HAT-45-1.5	1.5	341.9	NP	
Target Debris Field	HAT-46	HAT-46-0	0	95	NP	
Target Debris Field	HAT-46	HAT-46-0.5	0.5	72	NP	
Target Debris Field	HAT-46	HAT-46-0.5 DUP	0.5	81.4	NP	
Target Debris Field	HAT-46	HAT-46-1	1	206	NP	
Target Debris Field	HAT-47	HAT-47-0	0	54	<0.1	11
Target Debris Field	HAT-47	HAT-47-0.5	0.5	225.2	<0.1	1
Target Debris Field	HAT-47	HAT-47-1	1	209.1	NP	
Target Debris Field	HAT-47	HAT-47-1.5	1.5	244.2	NP	
Target Debris Field	HAT-47	HAT-47-2	2	233	NP	
Target Debris Field	HAT-48	HAT-48-0	0	112	NP	
Target Debris Field	HAT-48	HAT-48-0.5	0.5	216	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Target Debris Field	HAT-48	HAT-48-1	1	150	NP	
Target Debris Field	HAT-49	HAT-49-0	0	74	0.4	5
Target Debris Field	HAT-49	HAT-49-0.5	0.5	102	NP	
Target Debris Field	HAT-49	HAT-49-0.5 DUP	0.5	122	NP	
Target Debris Field	HAT-50	HAT-50-0	0	128	NP	
Target Debris Field	HAT-50	HAT-50-0.5	0.5	204	NP	
Target Debris Field	HAT-51	HAT-51-0	0	131.8	NP	
Target Debris Field	HAT-51	HAT-51-0.5	0.5	152.1	NP	
Target Debris Field	HAT-51	HAT-51-1	1	315.1	NP	
Target Debris Field	HAT-51	HAT-51-1.5	1.5	317.4	NP	
Target Debris Field	HAT-51	HAT-51-2	2	308.2	NP	
Target Debris Field	HAT-52	HAT-52-0	0	119	NP	
Target Debris Field	HAT-52	HAT-52-0.5 DUP	0.5	159	NP	
Target Debris Field	HAT-52	HAT-52-0.5	0.5	156	NP	
Target Debris Field	HAT-52	HAT-52-1	1	310	NP	
Target Debris Field	HAT-56	HAT-56-0	0	90.9	NP	
Target Debris Field	HAT-56	HAT-56-0.5 DUP	0.5	140.5	NP	
Target Debris Field	HAT-56	HAT-56-0.5	0.5	148.4	NP	
Target Debris Field	HAT-57	HAT-57-0	0	96.5	<0.1	7
Target Debris Field	HAT-57	HAT-57-0.5	0.5	224.8	NP	
Target Debris Field	HAT-57	HAT-57-1	1	205.1	NP	
Target Debris Field	HAT-57	HAT-57-1.5	1.5	201.4	NP	
Target Debris Field	HAT-57	HAT-57-2	2	205.7	NP	
Target Debris Field	HAT-57A	HAT-57A-0.5	0.5	217	NP	
Target Debris Field	HAT-58	HAT-58-0	0	96.5	NP	
Target Debris Field	HAT-58	HAT-58-0.5	0.5	120	NP	
Target Debris Field	HAT-58	HAT-58-0.5 DUP	0.5	116.4	NP	
Target Debris Field	HAT-58	HAT-58-1	1	235	NP	
Target Debris Field	HAT-58	HAT-58-1.5	1.5	217	NP	
Target Debris Field	HAT-59	HAT-59-0	0	112	<0.1	1
Target Debris Field	HAT-59	HAT-59-0.5	0.5	70.9	NP	
Target Debris Field	HAT-59	HAT-59-0.5 DUP	0.5	108	NP	
Target Debris Field	HAT-59	HAT-59-1	1	276	NP	
Target Debris Field	HAT-60	HAT-60-0	0	88.4	NP	
Target Debris Field	HAT-60	HAT-60-0.5	0.5	191	NP	
Target Debris Field	HAT-60	HAT-60-1	1	197.7	NP	
Target Debris Field	HAT-60	HAT-60-1.5	1.5	267.3	NP	
Target Debris Pile	HAP-1	HAP-1-1	1	46.3	NP	
Target Debris Pile	HAP-1	HAP-1-3	3	57.8	NP	

Table 2-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Location	Sample ID	Depth (feet)	Sample Weight (grams)	Pellets Weight (grams)	Pellet Count
Target Debris Pile	HAP-1	HAP-1-5	5	48.5	NP	
Target Debris Pile	HAP-2	HAP-2-1	1	44.2	NP	
Target Debris Pile	HAP-2	HAP-2-3	3	50.1	NP	
Target Debris Pile	HAP-2	HAP-2-5	5	52.5	NP	
Target Debris Pile	HAP-3	HAP-3-1	1	49.2	NP	
Target Debris Pile	HAP-3	HAP-3-3	3	31.2	NP	
Target Debris Pile	HAP-3	HAP-3-5	5	67.6	NP	
Target Debris Pile	HAP-4	HAP-4-1	1	53.2	NP	
Target Debris Pile	HAP-4	HAP-4-3	3	67.5	NP	
Target Debris Pile	HAP-4	HAP-4-5	5	74.9	NP	
Target Debris Pile	HAP-5	HAP-5-1	1	43.8	NP	
Target Debris Pile	HAP-5	HAP-5-3	3	78.9	NP	
Target Debris Pile	HAP-5	HAP-5-5	5	62.3	NP	
Target Debris Pile	HAP-6	HAP-6-1	1	74.2	NP	
Target Debris Pile	HAP-6	HAP-6-3	3	47	NP	
Target Debris Pile	HAP-6	HAP-6-5	5	73	NP	

Notes: NP = no pellets detected
<0.1 = less than field scale detection limit
> equals greater than

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAB-1A-0	0	<LOD	<LOD	<LOD	33016	30	693	<LOD	76
Berm	HAB-1A-1	1	<LOD	<LOD	43	37379	14	703	<LOD	56
Berm	HAB-1A-2	2	<LOD	<LOD	<LOD	32801	13	782	<LOD	54
Berm	HAB-1B-0	0	<LOD	<LOD	52	25653	36	455	<LOD	92
Berm	HAB-1B-1	1	<LOD	<LOD	<LOD	26065	21	651	<LOD	54
Berm	HAB-1B-2	2	<LOD	<LOD	63	30476	25	716	<LOD	72
Berm	HAB-2-0	0	<LOD	<LOD	<LOD	32032	60	669	<LOD	120
Berm	HAB-2-0.5	0.5	<LOD	<LOD	<LOD	37829	33	748	<LOD	87
Berm	HAB-2-1	1	<LOD	<LOD	<LOD	36478	30	768	<LOD	93
Berm	HAB-2-1.5	1.5	<LOD	<LOD	<LOD	38046	22	817	<LOD	63
Berm	HAB-2-2	2	<LOD	<LOD	<LOD	37565	17	742	<LOD	57
Berm	HAB-2A-0	0	<LOD	<LOD	32	26976	23	663	<LOD	68
Berm	HAB-2A-1	1	<LOD	<LOD	31	24228	19	550	<LOD	46
Berm	HAB-2A-1 DUP	1	<LOD	<LOD	<LOD	20529	<LOD	402	<LOD	46
Berm	HAB-2A-2	2	<LOD	<LOD	<LOD	21946	<LOD	381	<LOD	54
Berm	HAB-2B-0	0	<LOD	<LOD	<LOD	24692	34	775	<LOD	79
Berm	HAB-2B-1	1	<LOD	<LOD	<LOD	21989	23	781	<LOD	50
Berm	HAB-3A-0	0	<LOD	<LOD	47	32540	36	582	<LOD	102
Berm	HAB-3A-1	1	<LOD	<LOD	<LOD	41419	20	875	<LOD	75
Berm	HAB-3B-0	0	8	<LOD	<LOD	32150	16	714	<LOD	61
Berm	HAB-3B-1	1	<LOD	<LOD	<LOD	37598	<LOD	816	<LOD	53
Berm	HAB-3B-2	2	<LOD	<LOD	<LOD	32424	<LOD	579	<LOD	52
Berm	HAB-4-0 DUP	0	<LOD	<LOD	31	38630	23	1036	<LOD	76
Berm	HAB-4A-0	0	<LOD	<LOD	<LOD	20864	22	513	<LOD	58
Berm	HAB-4A-0 DUP	0	8	<LOD	<LOD	25769	24	611	<LOD	53
Berm	HAB-4A-1	1	<LOD	<LOD	<LOD	24851	16	584	<LOD	54
Berm	HAB-4A-2	2	<LOD	<LOD	<LOD	35244	17	714	<LOD	75
Berm	HAB-4B-0	0	<LOD	<LOD	<LOD	38217	13	798	<LOD	63
Berm	HAB-4B-1	1	<LOD	<LOD	<LOD	40476	<LOD	871	<LOD	70

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAB-4B-2	2	<LOD	<LOD	<LOD	39537	15	824	<LOD	66
Berm	HAB-5A-0	0	<LOD	<LOD	88	22614	78	942	<LOD	148
Berm	HAB-5A-1	1	<LOD	385	<LOD	18792	24	1560	<LOD	31
Berm	HAB-5A-2	2	<LOD	<LOD	<LOD	27679	25	771	<LOD	50
Berm	HAB-5B-0	0	<LOD	<LOD	<LOD	36768	14	1126	<LOD	48
Berm	HAB-5B-1	1	<LOD	<LOD	<LOD	32928	13	1982	<LOD	48
Berm	HAB-5B-2	2	<LOD	<LOD	<LOD	37508	15	1161	<LOD	42
Berm	HAB-6-0	0	<LOD	<LOD	30	26296	35	617	<LOD	58
Berm	HAB-6-0 DUP	0	<LOD	<LOD	33	25176	29	629	<LOD	67
Berm	HAB-6-0.5	0.5	9	<LOD	<LOD	19857	32	435	<LOD	69
Berm	HAB-6-1	1	11	<LOD	39	26672	42	515	<LOD	66
Berm	HAB-6-1.5	1.5	<LOD	<LOD	<LOD	24309	34	667	<LOD	58
Berm	HAB-6-2	2	<LOD	<LOD	52	24634	32	628	87	58
Berm	HAB-6-2.5	2.5	<LOD	<LOD	<LOD	21006	30	518	<LOD	41
Berm	HAB-6A-0	0	<LOD	<LOD	33	20253	32	692	<LOD	57
Berm	HAB-6A-0 DUP	0	<LOD	<LOD	<LOD	20142	32	544	<LOD	45
Berm	HAB-6A-1	1	<LOD	<LOD	<LOD	13203	20	1557	<LOD	41
Berm	HAB-6A-2	2	11	<LOD	<LOD	13945	<LOD	420	<LOD	25
Berm	HAB-6B-0	0	<LOD	<LOD	<LOD	29323	20	858	<LOD	58
Berm	HAB-6B-1	1	<LOD	<LOD	<LOD	29897	<LOD	930	<LOD	37
Berm	HAB-6B-2	2	<LOD	<LOD	<LOD	27434	<LOD	799	<LOD	41
Berm	HAB-7-0	0	<LOD	<LOD	<LOD	18173	21	389	<LOD	87
Berm	HAB-7-0.5	0.5	<LOD	<LOD	<LOD	16675	28	356	<LOD	75
Berm	HAB-7-1	1	<LOD	<LOD	31	21181	17	616	<LOD	66
Berm	HAB-7-1.5	1.5	<LOD	<LOD	<LOD	17814	15	444	<LOD	45
Berm	HAB-7-2	2	<LOD	<LOD	<LOD	18580	16	2187	<LOD	32
Berm	HAB-7-2.5	2.5	<LOD	197	<LOD	16659	12	406	<LOD	19
Berm	HAB-7A-0	0	<LOD	<LOD	<LOD	20491	19	437	<LOD	49
Berm	HAB-7A-1	1	<LOD	<LOD	<LOD	23406	18	612	<LOD	29

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAB-7A-2	2	<LOD	<LOD	<LOD	18236	<LOD	505	<LOD	25
Berm	HAB-7B-0	0	<LOD	<LOD	<LOD	23022	44	589	<LOD	59
Berm	HAB-7B-1	1	<LOD	<LOD	<LOD	15651	11	387	<LOD	32
Berm	HAB-7B-2	2	<LOD	<LOD	<LOD	15203	14	408	<LOD	28
Berm	HAB-8-0	0	<LOD	<LOD	<LOD	27646	18	833	<LOD	55
Berm	HAB-8-0 DUP	0	<LOD	<LOD	<LOD	16821	12	422	<LOD	32
Berm	HAB-8-0.5	0.5	<LOD	<LOD	<LOD	15552	20	341	<LOD	31
Berm	HAB-8-1	1	<LOD	<LOD	<LOD	17978	<LOD	381	<LOD	31
Berm	HAB-8-1.5	1.5	<LOD	<LOD	<LOD	12813	<LOD	180	<LOD	20
Berm	HAB-8-2	2	<LOD	<LOD	<LOD	19273	12	482	<LOD	<LOD
Berm	HAB-8A-0	0	<LOD	<LOD	<LOD	25276	<LOD	574	<LOD	43
Berm	HAB-8A-1	1	<LOD	<LOD	<LOD	44304	<LOD	843	<LOD	93
Berm	HAB-8A-1 DUP	1	<LOD	<LOD	<LOD	40731	<LOD	873	<LOD	80
Berm	HAB-8A-2	2	<LOD	<LOD	<LOD	37347	<LOD	626	<LOD	75
Berm	HAB-8B-0	0	<LOD	<LOD	<LOD	29116	<LOD	488	<LOD	44
Berm	HAB-8B-1	1	<LOD	<LOD	<LOD	28731	12	624	<LOD	36
Berm	HAB-8B-2	2	<LOD	<LOD	<LOD	30085	<LOD	488	<LOD	60
Berm	HAB-9A-0	0	<LOD	<LOD	43	26448	36	923	<LOD	96
Berm	HAB-9A-1	1	<LOD	<LOD	33	34710	17	1138	<LOD	99
Berm	HAB-9A-2	2	<LOD	<LOD	<LOD	37611	<LOD	1268	<LOD	111
Berm	HAB-9B-0	0	<LOD	<LOD	30	27577	28	777	<LOD	55
Berm	HAB-9B-1	1	<LOD	<LOD	77	27411	31	1009	<LOD	72
Berm	HAB-10-0	0	<LOD	<LOD	<LOD	31088	19	591	<LOD	47
Berm	HAB-10-0 DUP	0	<LOD	<LOD	<LOD	38801	26	694	<LOD	60
Berm	HAG-10-0 DUP	0	<LOD	<LOD	39	21858	40	586	<LOD	63
Berm	HAB-10-0.5	0.5	<LOD	<LOD	<LOD	35330	<LOD	758	<LOD	41
Berm	HAB-10-1	1	<LOD	<LOD	<LOD	37492	16	885	<LOD	45
Berm	HAB-10-1.5	1.5	<LOD	<LOD	<LOD	39975	17	734	<LOD	53
Berm	HAB-10-2	2	<LOD	<LOD	<LOD	39310	13	947	<LOD	68

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAB-10-2.5	2.5	<LOD	<LOD	<LOD	44131	13	763	<LOD	72
Berm	HAB-10A-0	0	<LOD	<LOD	<LOD	35042	<LOD	644	<LOD	48
Berm	HAB-10A-0 DUP	0	<LOD	<LOD	<LOD	32563	17	724	<LOD	56
Berm	HAB-10B-0	0	<LOD	<LOD	<LOD	27058	24	492	<LOD	55
Berm	HAB-10B-1	1	<LOD	<LOD	<LOD	23744	19	561	<LOD	48
Berm	HAB-11A-0	0	<LOD	<LOD	<LOD	24815	20	880	<LOD	50
Berm	HAB-11A-1	1	<LOD	<LOD	<LOD	33283	20	682	<LOD	62
Berm	HAB-11A-2	2	<LOD	<LOD	<LOD	33227	13	716	<LOD	50
Berm	HAB-11B-0	0	<LOD	<LOD	<LOD	29473	83	688	<LOD	72
Berm	HAB-11B-1	1	<LOD	<LOD	35	33779	<LOD	866	<LOD	67
Berm	HAB-11B-2	2	<LOD	<LOD	<LOD	34866	12	742	<LOD	58
Berm	HAB-12-0	0	43	<LOD	<LOD	27768	607	546	<LOD	73
Berm	HAB-12-0 DUP	0	<LOD	<LOD	40	27900	421	618	<LOD	45
Berm	HAB-12-0.5	0.5	<LOD	<LOD	41	31330	114	548	<LOD	64
Berm	HAB-12-1	1	<LOD	<LOD	60	26754	150	695	<LOD	62
Berm	HAB-12-1.5	1.5	<LOD	<LOD	<LOD	26075	213	692	<LOD	47
Berm	HAB-12-2	2	16	<LOD	34	26911	181	630	<LOD	70
Berm	HAB-12-2.5	2.5	<LOD	<LOD	<LOD	37778	26	999	<LOD	66
Berm	HAB-12A-0	0	42	<LOD	<LOD	27645	752	611	<LOD	61
Berm	HAB-12A-0 DUP	0	<LOD	<LOD	33	34067	107	721	<LOD	53
Berm	HAB-12A-1	1	15	<LOD	<LOD	34035	68	664	<LOD	72
Berm	HAB-12B-0	0	15	<LOD	32	31015	118	654	<LOD	59
Berm	HAB-12B-1	1	<LOD	<LOD	<LOD	27957	37	574	<LOD	59
Berm	HAB-13-0	0	<LOD	<LOD	<LOD	32241	97	745	<LOD	70
Berm	HAB-13-0.5	0.5	<LOD	<LOD	36	29933	48	633	<LOD	49
Berm	HAB-13-1	1	10	<LOD	<LOD	29139	49	540	<LOD	47
Berm	HAB-13-1.5	1.5	<LOD	<LOD	<LOD	30442	91	669	<LOD	43
Berm	HAB-13-2	2	<LOD	<LOD	44	28150	20	649	<LOD	63
Berm	HAB-13A-0	0	<LOD	<LOD	44	25505	42	642	<LOD	59

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAB-13A-1	1	<LOD	<LOD	<LOD	30968	31	565	<LOD	55
Berm	HAB-13A-2	2	<LOD	<LOD	<LOD	35447	27	733	<LOD	67
Berm	HAB-13B-0	0	<LOD	<LOD	40	26168	228	596	<LOD	36
Berm	HAB-13B-1	1	19	<LOD	<LOD	18643	152	380	<LOD	37
Berm	HAB-13B-2	2	<LOD	<LOD	<LOD	15357	<LOD	268	<LOD	28
Berm	HAB-14-0	0	<LOD	<LOD	<LOD	32110	21	674	<LOD	53
Berm	HAB-14-0.5	0.5	<LOD	<LOD	<LOD	33441	12	644	<LOD	47
Berm	HAB-14-1	1	<LOD	<LOD	<LOD	30672	<LOD	682	<LOD	60
Berm	HAB-14-1.5	1.5	<LOD	<LOD	<LOD	30271	14	679	<LOD	54
Berm	HAB-14-2	2	<LOD	<LOD	42	29319	16	691	<LOD	63
Berm	HAB-14-2.5	2.5	<LOD	<LOD	<LOD	32033	13	723	<LOD	50
Berm	HAB-14A-0	0	23	<LOD	<LOD	32695	196	733	<LOD	76
Berm	HAB-14A-0 DUP	0	37	<LOD	<LOD	27810	363	614	<LOD	78
Berm	HAB-14A-1	1	<LOD	<LOD	<LOD	32174	66	623	<LOD	45
Berm	HAB-14A-2	2	9	<LOD	<LOD	30269	31	628	<LOD	53
Berm	HAB-14B-0	0	<LOD	<LOD	43	31888	111	696	<LOD	62
Berm	HAB-14B-1	1	<LOD	<LOD	<LOD	33256	48	781	<LOD	58
Berm	HAB-14B-2	2	<LOD	<LOD	<LOD	33626	23	757	<LOD	55
Berm	HAB-15-0	0	<LOD	<LOD	<LOD	33564	41	732	<LOD	48
Berm	HAB-15-0 DUP	0	<LOD	<LOD	<LOD	27323	16	415	<LOD	44
Berm	HAB-15-0.5	0.5	<LOD	<LOD	<LOD	26569	<LOD	411	<LOD	40
Berm	HAB-15-1	1	<LOD	<LOD	<LOD	29020	<LOD	578	<LOD	21
Berm	HAB-15-1.5	1.5	<LOD	<LOD	<LOD	29334	17	487	<LOD	41
Berm	HAB-15-2	2	<LOD	<LOD	<LOD	27119	<LOD	538	<LOD	42
Berm	HAB-15-2.5	2.5	8	<LOD	<LOD	25570	<LOD	496	<LOD	49
Berm	HAB-15A-0	0	<LOD	<LOD	33	26910	16	548	<LOD	48
Berm	HAB-15A-1	1	<LOD	<LOD	<LOD	30623	15	807	<LOD	49
Berm	HAB-15B-0	0	<LOD	<LOD	<LOD	20341	33	493	<LOD	34
Berm	HAB-15B-1	1	<LOD	<LOD	<LOD	20325	<LOD	434	<LOD	44

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAB-15B-2	2	<LOD	<LOD	<LOD	17554	<LOD	429	<LOD	24
Berm	HAB-16-0	0	<LOD	<LOD	<LOD	37577	19	740	<LOD	57
Berm	HAB-16-0 DUP	0	<LOD	<LOD	<LOD	38354	16	717	<LOD	61
Berm	HAB-16-0.5	0.5	<LOD	<LOD	<LOD	34961	16	794	<LOD	56
Berm	HAB-16-1	1	<LOD	<LOD	<LOD	38562	13	691	<LOD	59
Berm	HAB-16-1.5	1.5	<LOD	<LOD	<LOD	35190	14	660	<LOD	60
Berm	HAB-16-2	2	<LOD	<LOD	<LOD	37135	<LOD	656	<LOD	58
Berm	HAB-16-2.5	2.5	<LOD	<LOD	<LOD	32609	26	772	<LOD	47
Berm	HAB-16A-0	0	10	<LOD	<LOD	30154	30	668	<LOD	66
Berm	HAB-16A-0 DUP	0	<LOD	<LOD	<LOD	31941	15	682	<LOD	65
Berm	HAB-16A-1	1	<LOD	<LOD	<LOD	34532	<LOD	828	<LOD	56
Berm	HAB-16A-2	2	13	<LOD	51	35440	<LOD	841	<LOD	68
Berm	HAB-16B-0	0	<LOD	<LOD	<LOD	26192	57	572	<LOD	46
Berm	HAB-16B-1	1	<LOD	<LOD	<LOD	17393	<LOD	399	<LOD	31
Berm	HAB-17A-0	0	<LOD	<LOD	51	29898	37	679	<LOD	67
Berm	HAB-17A-1	1	<LOD	<LOD	30	32015	20	645	<LOD	81
Berm	HAB-17A-2	2	<LOD	<LOD	37	30040	21	676	<LOD	71
Berm	HAB-17B-0	0	<LOD	<LOD	<LOD	34275	23	657	<LOD	52
Berm	HAB-17B-1	1	<LOD	<LOD	<LOD	26781	<LOD	564	<LOD	37
Berm	HAB-17B-2	2	<LOD	<LOD	<LOD	26213	<LOD	418	<LOD	40
Berm	HAB-18A-0	0	<LOD	<LOD	<LOD	29539	23	776	<LOD	47
Berm	HAB-18A-1	1	<LOD	<LOD	<LOD	30051	20	665	<LOD	60
Berm	HAB-18A-2	2	<LOD	<LOD	<LOD	29875	13	675	<LOD	62
Berm	HAB-18B-0	0	<LOD	<LOD	<LOD	32789	36	698	<LOD	55
Berm	HAB-18B-1	1	<LOD	<LOD	<LOD	33493	22	735	<LOD	72
Berm	HAB-18B-2	2	9	<LOD	<LOD	33320	17	730	<LOD	47
Berm	HAB-19-0	0	<LOD	<LOD	<LOD	35841	25	619	<LOD	60
Berm	HAB-19-0.5	0.5	<LOD	<LOD	<LOD	32785	26	663	<LOD	71
Berm	HAB-19-0.5 DUP	0.5	<LOD	<LOD	<LOD	31550	17	551	<LOD	57

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAB-19-1	1	<LOD	<LOD	<LOD	32277	30	651	<LOD	67
Berm	HAB-19-1.5	1.5	9	<LOD	41	32403	16	743	<LOD	68
Berm	HAB-19-2	2	<LOD	<LOD	32	31011	17	613	<LOD	54
Berm	HAB-19-2.5	2.5	<LOD	<LOD	<LOD	32693	15	757	<LOD	70
Berm	HAB-19-3	3	<LOD	<LOD	<LOD	31076	15	555	<LOD	59
Berm	HAB-19-3.5	3.5	<LOD	<LOD	<LOD	30013	25	650	<LOD	58
Berm	HAB-19-4	4	<LOD	<LOD	<LOD	32461	21	390	<LOD	72
Berm	HAB-19-4.5	4.5	9	<LOD	31	31257	17	550	<LOD	61
Berm	HAB-19-5	5	<LOD	<LOD	31	30229	20	554	<LOD	65
Berm	HAB-19-5.5	5.5	<LOD	<LOD	33	27730	23	525	<LOD	71
Berm	HAB-19A-0	0	<LOD	<LOD	39	25410	21	811	<LOD	60
Berm	HAB-19A-1	1	<LOD	<LOD	61	25119	25	819	<LOD	61
Berm	HAB-19A-2	2	<LOD	<LOD	54	26361	29	837	<LOD	77
Berm	HAB-19B-0	0	<LOD	<LOD	<LOD	19719	<LOD	476	<LOD	32
Berm	HAB-19B-1	1	<LOD	<LOD	<LOD	18623	<LOD	648	<LOD	32
Berm	HAB-19B-2	2	<LOD	<LOD	35	17391	<LOD	362	<LOD	<LOD
Berm	HAB-20A-0	0	<LOD	<LOD	35	31402	25	693	<LOD	68
Berm	HAB-20A-1	1	<LOD	<LOD	37	31686	27	764	<LOD	65
Berm	HAB-20A-2	2	<LOD	<LOD	29	29704	13	889	<LOD	58
Berm	HAB-20B-0	0	<LOD	<LOD	46	28890	17	1107	<LOD	68
Berm	HAB-20B-0 DUP	0	<LOD	<LOD	<LOD	27994	18	653	<LOD	61
Berm	HAB-20B-1	1	<LOD	<LOD	49	29544	16	739	<LOD	65
Berm	HAB-20B-2	2	<LOD	<LOD	32	27473	15	522	<LOD	62
Berm	HAB-21A-0	0	<LOD	<LOD	317	24792	24	802	<LOD	99
Berm	HAB-21A-1	1	<LOD	<LOD	159	25919	13	888	<LOD	58
Berm	HAB-21A-2	2	<LOD	<LOD	30	24845	13	823	<LOD	46
Berm	HAB-21B-0	0	<LOD	<LOD	<LOD	24150	30	793	<LOD	46
Berm	HAB-21B-1	1	9	<LOD	44	26976	13	848	<LOD	55
Berm	HAB-21B-2	2	<LOD	<LOD	39	27077	19	842	<LOD	55

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAB-22A-0	0	10	<LOD	<LOD	22944	15	924	<LOD	52
Berm	HAB-22A-1	1	<LOD	<LOD	37	22305	14	715	<LOD	44
Berm	HAB-22A-2	2	<LOD	<LOD	<LOD	22555	16	746	<LOD	37
Berm	HAB-22B-0	0	<LOD	<LOD	64	23950	25	1876	<LOD	47
Berm	HAB-22B-0 DUP	0	<LOD	<LOD	73	24442	27	790	<LOD	63
Berm	HAB-22B-1	1	<LOD	<LOD	44	20964	18	653	<LOD	57
Berm	HAB-22B-2	2	<LOD	<LOD	51	22850	17	536	<LOD	54
Berm	HAB-23A-0	0	9	<LOD	62	33328	<LOD	974	<LOD	70
Berm	HAB-23A-1	1	<LOD	<LOD	<LOD	30637	13	945	<LOD	55
Berm	HAB-23A-2	2	<LOD	<LOD	38	28387	<LOD	905	<LOD	48
Berm	HAB-23B-0	0	<LOD	<LOD	59	32459	18	679	<LOD	88
Berm	HAB-23B-1	1	<LOD	<LOD	88	30898	21	1036	<LOD	77
Berm	HAB-23B-2	2	<LOD	<LOD	66	26845	19	818	<LOD	78
Berm	HAB-24A-0	0	<LOD	<LOD	<LOD	32250	<LOD	2521	<LOD	72
Berm	HAB-24A-1	1	<LOD	<LOD	31	36054	19	1074	<LOD	63
Berm	HAB-24A-2	2	9	<LOD	37	36699	12	1091	<LOD	56
Berm	HAB-24B-0	0	<LOD	<LOD	<LOD	34390	27	671	<LOD	69
Berm	HAB-24B-1	1	<LOD	<LOD	36	36577	28	850	<LOD	76
Berm	HAB-24B-2	2	<LOD	<LOD	46	35553	<LOD	759	<LOD	64
Berm	HAT-53-0	0	<LOD	<LOD	35	35566	14	1081	<LOD	64
Berm	HAT-53-0.5	0.5	<LOD	<LOD	38	38143	28	1276	<LOD	53
Berm	HAT-53-1	1	<LOD	<LOD	30	34234	<LOD	1152	<LOD	46
Berm	HAT-53-1.5	1.5	<LOD	<LOD	35	36117	13	1252	<LOD	68
Berm	HAT-53-2	2	<LOD	<LOD	<LOD	38698	15	1188	<LOD	57
Berm	HAT-54-0	0	<LOD	<LOD	48	31272	187	710	<LOD	85
Berm	HAT-54-0.5	0.5	<LOD	<LOD	<LOD	35357	34	781	<LOD	76
Berm	HAT-54-0.5 DUP	0.5	<LOD	<LOD	<LOD	37543	76	679	<LOD	69
Berm	HAT-54-1	1	<LOD	<LOD	46	32395	51	772	<LOD	59
Berm	HAT-54-1.5	1.5	17	<LOD	<LOD	33465	148	665	<LOD	56

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	HAT-54-2	2	<LOD	<LOD	39	32951	66	632	<LOD	78
Berm	HAT-55-0	0	<LOD	<LOD	30	32921	20	546	<LOD	63
Berm	HAT-55-0.5	0.5	<LOD	<LOD	31	31219	20	643	<LOD	67
Berm	HAT-55-1	1	<LOD	<LOD	30	31108	19	867	<LOD	61
Berm	HAT-55-1.5	1.5	<LOD	<LOD	<LOD	31504	21	517	<LOD	73
Berm	TB-11-0	0	<LOD	<LOD	<LOD	40471	19	946	<LOD	67
Berm	TB-11-1	1	<LOD	<LOD	<LOD	36426	<LOD	815	<LOD	42
Berm	TB-11-2	2	<LOD	<LOD	31	37532	16	750	<LOD	44
Berm	TB-11-3	3	<LOD	<LOD	<LOD	38228	15	885	<LOD	47
Berm	TB-11-4	4	<LOD	<LOD	<LOD	33788	<LOD	751	<LOD	36
Berm	TB-11-5	5	<LOD	<LOD	<LOD	29692	<LOD	667	<LOD	23
Berm	TB-11-5 DUP	5	<LOD	<LOD	137	17703	15	655	<LOD	116
Berm	TB-17-0	0	<LOD	<LOD	40	39604	96	837	<LOD	64
Berm	TB-17-1	1	<LOD	<LOD	<LOD	37789	36	766	<LOD	75
Berm	TB-17-2	2	<LOD	<LOD	<LOD	37488	26	889	<LOD	56
Berm	TB-17-3	3	<LOD	<LOD	38	30961	21	697	<LOD	57
Berm	TB-17-4	4	<LOD	<LOD	<LOD	37589	20	753	<LOD	64
Berm	TB-17-5	5	<LOD	<LOD	<LOD	37080	18	811	<LOD	56
Berm	TB-17-6	6	<LOD	<LOD	<LOD	20442	20	551	<LOD	37
Berm	TB-17-7	7	<LOD	<LOD	32	20580	39	501	<LOD	40
Berm	TB-17-8	8	<LOD	<LOD	<LOD	22497	14	534	<LOD	41
Berm	TB-17-9	9	<LOD	<LOD	41	24961	25	553	<LOD	53
Berm	TB-17-9 DUP	9	<LOD	<LOD	55	24823	32	630	<LOD	53
Berm	TB-17-10	10	10	<LOD	61	26745	19	629	<LOD	49
Berm	TB-18-0	0	<LOD	<LOD	<LOD	33547	24	717	<LOD	47
Berm	TB-18-1	1	<LOD	<LOD	<LOD	32009	20	804	<LOD	61
Berm	TB-18-2	2	10	<LOD	<LOD	31876	13	621	<LOD	63
Berm	TB-18-3	3	<LOD	<LOD	<LOD	31239	20	690	<LOD	49
Berm	TB-18-4	4	<LOD	<LOD	<LOD	27724	20	612	<LOD	39

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Berm	TB-18-5	5	<LOD	<LOD	<LOD	34195	17	735	<LOD	57
Berm	TB-18-6	6	<LOD	<LOD	<LOD	29872	26	775	<LOD	40
Berm	TB-18-7	7	<LOD	<LOD	<LOD	27997	30	639	<LOD	53
Median	HAG-1-0	0	<LOD	<LOD	59	23650	55	867	<LOD	75
Median	HAG-1-0.5	0.5	<LOD	<LOD	33	25689	35	678	<LOD	72
Median	HAG-1-1	1	12	<LOD	63	24271	26	718	<LOD	48
Median	HAG-1-1.5	1.5	<LOD	<LOD	71	24897	31	871	<LOD	61
Median	HAG-1-2	2	9	216	<LOD	25162	17	625	<LOD	60
Median	HAG-2-0	0	12	<LOD	63	22631	50	653	<LOD	79
Median	HAG-2-0 DUP	0	9	<LOD	63	24746	33	497	<LOD	58
Median	HAG-2-0.5	0.5	<LOD	<LOD	38	24511	25	545	<LOD	42
Median	HAG-2-1	1	<LOD	<LOD	57	23499	36	565	<LOD	60
Median	HAG-2-1.5	1.5	<LOD	<LOD	41	26035	24	693	<LOD	51
Median	HAG-2-2	2	<LOD	<LOD	68	24410	39	653	<LOD	48
Median	HAG-3-0	0	14	<LOD	86	26229	45	595	<LOD	80
Median	HAG-3-0.5	0.5	<LOD	<LOD	36	24837	29	647	<LOD	52
Median	HAG-3-1	1	<LOD	<LOD	52	22452	29	630	<LOD	64
Median	HAG-3-1.5	1.5	<LOD	<LOD	76	24685	30	675	<LOD	63
Median	HAG-3-2	2	<LOD	<LOD	<LOD	25542	22	705	<LOD	59
Median	HAG-4-0	0	<LOD	<LOD	71	20357	40	560	<LOD	49
Median	HAG-4-0 DUP	0	19	<LOD	83	25211	33	469	<LOD	82
Median	HAG-4-0.5	0.5	<LOD	<LOD	43	20554	17	500	<LOD	70
Median	HAG-4-1	1	<LOD	<LOD	31	24681	16	675	<LOD	48
Median	HAG-4-1.5	1.5	12	<LOD	<LOD	25006	13	740	<LOD	44
Median	HAG-4-2	2	13	<LOD	77	26432	50	741	<LOD	61
Median	HAG-5-0	0	<LOD	<LOD	62	27386	54	655	<LOD	101
Median	HAG-5-0.5	0.5	<LOD	<LOD	<LOD	28841	20	657	<LOD	52
Median	HAG-5-1	1	<LOD	<LOD	<LOD	29538	23	744	<LOD	75
Median	HAG-6-0	0	<LOD	<LOD	105	23501	45	614	<LOD	75

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Median	HAG-6-0 DUP	0	<LOD	<LOD	85	23685	44	539	<LOD	70
Median	HAG-6-0.5	0.5	8	<LOD	30	24842	15	570	<LOD	54
Median	HAG-6-1	1	<LOD	204	33	23719	22	521	<LOD	46
Median	HAG-6-1.5	1.5	10	<LOD	<LOD	24813	<LOD	591	<LOD	48
Median	HAG-6-2	2	<LOD	<LOD	<LOD	26360	24	658	<LOD	82
Median	HAG-7-0	0	12	<LOD	60	23775	49	583	<LOD	61
Median	HAG-7-0.5	0.5	10	<LOD	43	24885	32	642	<LOD	54
Median	HAG-7-1	1	<LOD	<LOD	<LOD	22444	19	499	<LOD	57
Median	HAG-7-1.5	1.5	<LOD	<LOD	<LOD	21770	24	555	<LOD	52
Median	HAG-7-2	2	<LOD	<LOD	<LOD	25250	26	649	<LOD	55
Median	HAG-8-0	0	<LOD	<LOD	62	22047	40	704	<LOD	60
Median	HAG-8-0 DUP	0	15	<LOD	43	23882	42	545	<LOD	65
Median	HAG-8-0.5	0.5	10	<LOD	45	24902	34	693	<LOD	58
Median	HAG-8-1	1	9	<LOD	<LOD	25942	22	587	<LOD	64
Median	HAG-8-1.5	1.5	<LOD	<LOD	<LOD	24884	21	640	<LOD	56
Median	HAG-8-2	2	<LOD	<LOD	<LOD	22430	25	607	<LOD	52
Median	HAG-9-0	0	<LOD	<LOD	68	21604	33	438	<LOD	54
Median	HAG-9-0.5	0.5	10	<LOD	<LOD	31012	15	503	<LOD	60
Median	HAG-9-1	1	<LOD	<LOD	<LOD	25097	21	490	<LOD	49
Median	HAG-9-1.5	1.5	<LOD	<LOD	31	23126	19	534	<LOD	44
Median	HAG-9-2	2	<LOD	<LOD	<LOD	22397	26	403	<LOD	53
Median	HAG-10-0	0	<LOD	<LOD	<LOD	23161	55	579	<LOD	71
Median	HAG-10-0.5	0.5	<LOD	<LOD	52	24507	36	510	<LOD	72
Median	HAG-10-1	1	<LOD	<LOD	<LOD	25185	29	586	<LOD	49
Median	HAG-10-1.5	1.5	<LOD	<LOD	<LOD	25694	22	527	<LOD	57
Median	HAG-10-2	2	<LOD	<LOD	<LOD	24740	19	507	<LOD	58
Median	HAG-11-0	0	16	<LOD	<LOD	31863	53	580	<LOD	73
Median	HAG-11-0.5	0.5	<LOD	<LOD	46	25180	28	540	<LOD	70
Median	HAG-11-1	1	<LOD	<LOD	<LOD	26055	24	574	<LOD	67

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Median	HAG-11-1.5	1.5	<LOD	<LOD	<LOD	24922	26	604	<LOD	52
Median	HAG-11-2	2	<LOD	<LOD	<LOD	24076	19	447	<LOD	55
Otay River	HA-1-0	0	<LOD	<LOD	30	14264	27	324	<LOD	48
Otay River	HA-1-0 DUP	0	<LOD	<LOD	<LOD	15349	113	402	<LOD	44
Otay River	HA-1-0.5	0.5	<LOD	<LOD	<LOD	23422	41	542	<LOD	90
Otay River	HA-1-1	1	<LOD	<LOD	<LOD	21555	35	482	<LOD	82
Otay River	HA-1-1.5	1.5	<LOD	<LOD	<LOD	21623	47	518	<LOD	87
Otay River	HA-2-0	0	<LOD	<LOD	<LOD	24187	25	410	<LOD	53
Otay River	HA-2-0 DUP	0	<LOD	<LOD	<LOD	22631	<LOD	360	<LOD	47
Otay River	HA-2-0.5	0.5	<LOD	<LOD	<LOD	21762	15	427	<LOD	29
Otay River	HA-2-1	1	<LOD	<LOD	<LOD	21423	14	545	<LOD	32
Otay River	HA-2-1.5	1.5	<LOD	<LOD	<LOD	21416	12	446	<LOD	22
Otay River	HA-2-2	2	<LOD	<LOD	<LOD	20160	<LOD	362	<LOD	32
Otay River	HA-3-0	0	<LOD	<LOD	31	28931	30	444	<LOD	68
Otay River	HA-3-0 DUP	0	<LOD	<LOD	<LOD	22695	13	455	<LOD	52
Otay River	HA-3-0.5	0.5	<LOD	<LOD	<LOD	20828	<LOD	329	<LOD	54
Otay River	HA-3-1	1	<LOD	<LOD	35	18246	<LOD	349	<LOD	39
Otay River	HA-3-1.5	1.5	<LOD	<LOD	<LOD	15448	11	258	<LOD	36
Otay River	HA-4-0	0	<LOD	<LOD	<LOD	18794	16	273	<LOD	63
Otay River	HA-5-0	0	<LOD	<LOD	<LOD	25269	25	414	<LOD	69
Otay River	HA-5-0.5	0.5	<LOD	<LOD	<LOD	18718	35	375	<LOD	42
Otay River	HA-5-1	1	<LOD	<LOD	<LOD	19986	22	415	<LOD	40
Otay River	HA-5-1.5	1.5	<LOD	<LOD	<LOD	22026	29	479	<LOD	63
Otay River	HA-5-2	2	<LOD	<LOD	<LOD	21292	24	476	<LOD	65
Otay River	HA-6-0	0	<LOD	<LOD	<LOD	38340	17	850	<LOD	73
Otay River	HA-6-0.5	0.5	<LOD	<LOD	<LOD	37560	<LOD	812	<LOD	54
Otay River	HA-6-1	1	<LOD	<LOD	<LOD	36960	<LOD	824	<LOD	67
Otay River	HA-6-1.5	1.5	<LOD	<LOD	<LOD	37766	17	845	<LOD	54
Otay River	HA-6-2	2	<LOD	<LOD	<LOD	38863	<LOD	789	<LOD	46

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Otay River	HA-7-0	0	<LOD	<LOD	<LOD	22765	18	583	<LOD	37
Otay River	HA-7-0.5	0.5	<LOD	<LOD	<LOD	18373	<LOD	370	<LOD	35
Otay River	HA-7-1	1	<LOD	<LOD	<LOD	20592	13	460	<LOD	35
Otay River	HA-7-1.5	1.5	<LOD	<LOD	<LOD	20708	17	513	<LOD	42
Otay River	HA-7-2	2	<LOD	<LOD	<LOD	20648	14	489	<LOD	44
Otay River	HA-8-0	0	12	<LOD	34	45134	26	755	<LOD	118
Otay River	HA-8-0 DUP	0	13	<LOD	48	43356	<LOD	531	<LOD	121
Otay River	HA-8-0.5	0.5	11	<LOD	<LOD	43771	40	1341	<LOD	132
Otay River	HA-8-1	1	14	<LOD	<LOD	45451	41	1592	<LOD	118
Otay River	HA-8-1.5	1.5	<LOD	<LOD	44	42065	27	1009	<LOD	123
Otay River	HA-8-2	2	<LOD	<LOD	<LOD	42866	13	1201	<LOD	114
Otay River	HA-9-0	0	9	<LOD	40	28460	25	522	<LOD	88
Otay River	HA-9-0.5	0.5	<LOD	<LOD	29	29483	31	425	<LOD	79
Otay River	HA-9-1	1	10	<LOD	<LOD	30155	24	630	<LOD	77
Otay River	HA-9-1.5	1.5	<LOD	<LOD	42	28790	29	536	<LOD	75
Otay River	HA-9-2	2	<LOD	<LOD	<LOD	24297	21	472	<LOD	44
Otay River	HA-10-0	0	<LOD	<LOD	<LOD	27750	19	545	<LOD	73
Otay River	HA-10-0 DUP	0	<LOD	<LOD	<LOD	30927	24	659	<LOD	49
Otay River	HA-10-0.5	0.5	<LOD	<LOD	<LOD	30386	<LOD	636	<LOD	69
Otay River	HA-10-1	1	<LOD	<LOD	<LOD	32005	<LOD	484	<LOD	50
Otay River	HA-10-1.5	1.5	<LOD	<LOD	<LOD	30634	<LOD	438	<LOD	58
Otay River	HA-10-2	2	9	<LOD	<LOD	31961	15	463	<LOD	54
Otay River	HA-11-0	0	<LOD	<LOD	34	24094	31	780	<LOD	81
Otay River	HA-11-0 DUP	0	<LOD	<LOD	47	28491	38	631	<LOD	75
Otay River	HA-11-0.5	0.5	9	<LOD	67	25474	15	606	<LOD	58
Otay River	HA-11-1	1	<LOD	<LOD	44	23720	18	660	<LOD	48
Otay River	HA-12-0	0	<LOD	<LOD	<LOD	23337	<LOD	543	<LOD	51
Otay River	HA-12-0 DUP	0	<LOD	<LOD	<LOD	26082	15	399	<LOD	52
Otay River	HA-12-0.5	0.5	<LOD	<LOD	<LOD	23279	20	385	<LOD	39

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Otay River	HA-12-1	1	<LOD	<LOD	<LOD	24895	12	279	<LOD	42
Otay River	HA-12-1.5	1.5	<LOD	<LOD	<LOD	21396	13	577	<LOD	35
Otay River	HA-12-2	2	<LOD	<LOD	<LOD	22280	19	527	<LOD	30
Otay River	HA-13-0	0	<LOD	<LOD	<LOD	25307	30	592	<LOD	72
Otay River	HA-13-0.5	0.5	<LOD	<LOD	<LOD	25530	18	564	<LOD	52
Otay River	HA-13-1	1	<LOD	<LOD	<LOD	24290	20	424	<LOD	42
Otay River	HA-13-1.5	1.5	<LOD	<LOD	<LOD	21362	12	385	<LOD	46
Otay River	HA-13-2	2	<LOD	<LOD	<LOD	25363	16	511	<LOD	46
Otay River	HA-14-0	0	<LOD	<LOD	<LOD	24298	13	441	<LOD	49
Otay River	HA-14-0.5	0.5	<LOD	<LOD	31	24770	15	698	<LOD	55
Otay River	HA-14-1	1	<LOD	<LOD	<LOD	27983	<LOD	741	<LOD	52
Otay River	HA-14-1.5	1.5	<LOD	<LOD	32	23326	19	456	<LOD	52
Otay River	HA-14-2	2	8	<LOD	<LOD	23158	<LOD	971	<LOD	45
Otay River	HA-15-0	0	<LOD	<LOD	28	19619	18	483	<LOD	55
Otay River	HA-15-0.5	0.5	<LOD	<LOD	<LOD	17071	19	374	<LOD	46
Otay River	HA-15-1	1	<LOD	<LOD	<LOD	15785	21	442	<LOD	45
Otay River	HA-15-1.5	1.5	<LOD	<LOD	<LOD	20381	18	552	<LOD	56
Otay River	HA-15-2	2	<LOD	<LOD	<LOD	19922	16	450	<LOD	23
Otay River	HA-16-0	0	<LOD	<LOD	28	21353	15	371	<LOD	55
Otay River	HA-16-0.5	0.5	<LOD	<LOD	<LOD	23203	16	463	<LOD	60
Otay River	HA-16-1	1	<LOD	<LOD	<LOD	23251	19	485	<LOD	44
Otay River	HA-16-1.5	1.5	<LOD	<LOD	<LOD	25413	16	436	<LOD	59
Otay River	HA-16-2	2	<LOD	<LOD	<LOD	20460	12	288	<LOD	50
Otay River	HA-17-0	0	14	<LOD	<LOD	25870	31	605	<LOD	69
Otay River	HA-17-0.5	0.5	<LOD	<LOD	<LOD	23287	16	618	<LOD	46
Otay River	HA-17-1	1	<LOD	<LOD	<LOD	29526	27	742	<LOD	40
Otay River	HA-17-1.5	1.5	<LOD	<LOD	<LOD	22518	27	541	<LOD	42
Otay River	HA-17-2	2	10	<LOD	<LOD	24094	19	461	<LOD	50
Otay River	HA-18-0	0	<LOD	<LOD	<LOD	38099	22	1130	<LOD	77

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Otay River	HA-18-0 DUP	0	<LOD	<LOD	<LOD	25439	18	405	<LOD	50
Otay River	HA-18-0.5	0.5	<LOD	<LOD	<LOD	25001	14	680	<LOD	47
Otay River	HA-18-1	1	<LOD	<LOD	<LOD	27288	32	800	<LOD	61
Otay River	HA-18-1.5	1.5	<LOD	<LOD	<LOD	28422	17	773	<LOD	61
Otay River	HA-19-0	0	<LOD	<LOD	<LOD	23064	12	361	<LOD	45
Otay River	HA-19-0.5	0.5	<LOD	<LOD	<LOD	24285	24	449	<LOD	44
Otay River	HA-19-1	1	<LOD	<LOD	35	26046	24	278	<LOD	38
Otay River	HA-19-1.5	1.5	<LOD	<LOD	<LOD	26890	25	347	<LOD	51
Otay River	HA-19-2	2	<LOD	<LOD	<LOD	25915	29	393	<LOD	47
Otay River	HA-20-0	0	17	<LOD	<LOD	21274	<LOD	813	<LOD	46
Otay River	HA-20-0.5	0.5	<LOD	<LOD	<LOD	20983	16	830	<LOD	34
Otay River	HA-21-0	0	<LOD	<LOD	<LOD	33074	50	583	<LOD	109
Otay River	HA-21-0 DUP	0	<LOD	<LOD	<LOD	32520	27	528	<LOD	98
Otay River	HA-21-0.5	0.5	10	<LOD	<LOD	27875	15	541	<LOD	76
Otay River	HA-21-1	1	<LOD	<LOD	<LOD	30240	22	613	<LOD	65
Otay River	HA-22-0	0	11	<LOD	81	35737	55	699	<LOD	160
Otay River	HA-22-0.5	0.5	9	<LOD	<LOD	33632	<LOD	693	<LOD	70
Otay River	HA-22-1	1	<LOD	<LOD	<LOD	28654	25	495	<LOD	58
Otay River	HA-22-1.5	1.5	<LOD	<LOD	<LOD	23876	15	402	<LOD	56
Otay River	HA-22-2	2	<LOD	<LOD	<LOD	26470	22	496	<LOD	60
Otay River	HA-23-0	0	<LOD	<LOD	<LOD	31534	22	575	<LOD	51
Otay River	HA-23-0 DUP	0	<LOD	<LOD	38	33217	20	700	<LOD	61
Otay River	HA-23-0.5	0.5	<LOD	<LOD	<LOD	31485	<LOD	562	<LOD	48
Otay River	HA-23-1	1	<LOD	<LOD	<LOD	29921	15	533	<LOD	52
Otay River	HA-24-0	0	<LOD	<LOD	<LOD	21257	<LOD	420	<LOD	27
Otay River	HA-24-0.5	0.5	<LOD	<LOD	36	26596	11	505	<LOD	41
Otay River	HA-24-1	1	<LOD	<LOD	<LOD	14559	<LOD	283	<LOD	17
Otay River	HA-24-1.5	1.5	<LOD	<LOD	<LOD	24225	12	430	<LOD	45
Otay River	HA-25-0	0	10	<LOD	<LOD	27453	<LOD	418	<LOD	48

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Otay River	HA-25-0 DUP	0	<LOD	<LOD	28	22952	20	562	<LOD	48
Otay River	HA-25-0.5	0.5	<LOD	583	66	19805	27	982	<LOD	76
Otay River	HA-26-0	0	<LOD	<LOD	<LOD	23816	18	575	<LOD	65
Otay River	HA-26-0.5	0.5	9	<LOD	<LOD	27492	17	645	<LOD	68
Otay River	HA-26-1	1	8	<LOD	<LOD	26162	20	589	<LOD	60
Otay River	HA-26-1.5	1.5	<LOD	<LOD	<LOD	21061	19	361	<LOD	50
Otay River	HA-26-2	2	<LOD	<LOD	<LOD	19216	12	335	<LOD	41
Otay River	HA-27-0	0	10	<LOD	33	33619	25	874	<LOD	86
Otay River	HA-27-0.5	0.5	8	<LOD	<LOD	34605	<LOD	864	<LOD	68
Otay River	HA-27-1	1	<LOD	<LOD	42	32004	22	789	<LOD	68
Otay River	HA-27-1.5	1.5	<LOD	<LOD	29	32213	19	1506	<LOD	70
Otay River	HA-27-2	2	<LOD	<LOD	35	33949	24	763	<LOD	72
Otay River	HA-28-0	0	<LOD	<LOD	40	27767	27	700	<LOD	78
Otay River	HA-28-0 DUP	0	<LOD	<LOD	44	24859	18	611	<LOD	55
Otay River	HA-28-0.5	0.5	<LOD	<LOD	<LOD	25791	25	718	<LOD	69
Otay River	HA-28-1	1	<LOD	<LOD	38	24963	<LOD	615	<LOD	64
Otay River	HA-29-0	0	<LOD	<LOD	<LOD	22769	21	444	<LOD	46
Otay River	HA-29-0 DUP	0	<LOD	<LOD	<LOD	22416	25	420	<LOD	54
Otay River	HA-29-0.5	0.5	<LOD	<LOD	<LOD	29059	<LOD	293	<LOD	22
Otay River	HA-29-1	1	<LOD	<LOD	<LOD	23395	14	155	<LOD	48
Otay River	HA-29-1.5	1.5	<LOD	<LOD	<LOD	16452	13	175	<LOD	22
Otay River	HA-30-0	0	9	<LOD	<LOD	25351	24	517	<LOD	70
Otay River	HA-30-0.5	0.5	<LOD	<LOD	<LOD	24276	24	640	<LOD	51
Otay River	HA-30-1	1	<LOD	<LOD	<LOD	22342	20	467	<LOD	41
Otay River	HA-30-1.5	1.5	41	<LOD	<LOD	27099	33	367	<LOD	44
Otay River	HA-31-0	0	10	<LOD	<LOD	28416	17	599	<LOD	60
Otay River	HA-31-0.5	0.5	<LOD	<LOD	39	21116	20	7906	226	62
Otay River	HA-31-1	1	<LOD	<LOD	<LOD	26053	16	527	<LOD	53
Otay River	HA-31-1.5	1.5	<LOD	<LOD	<LOD	25774	18	460	<LOD	48

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Otay River	HA-31-2	2	34	<LOD	<LOD	29079	21	564	<LOD	56
Otay River	HA-32-0	0	<LOD	<LOD	<LOD	22349	27	479	<LOD	54
Otay River	HA-32-0.5	0.5	<LOD	<LOD	<LOD	22617	20	518	<LOD	46
Otay River	HA-33-0	0	<LOD	<LOD	32	25642	22	534	<LOD	60
Otay River	HA-33-0.5	0.5	<LOD	<LOD	<LOD	18946	12	314	<LOD	31
Otay River	HA-33-1	1	<LOD	<LOD	<LOD	22480	14	409	<LOD	41
Otay River	HA-33-1.5	1.5	<LOD	<LOD	<LOD	22945	<LOD	517	<LOD	55
Otay River	HA-34-0	0	<LOD	<LOD	<LOD	22313	17	632	<LOD	55
Otay River	HA-34-0 DUP	0	8	<LOD	<LOD	23680	14	571	<LOD	45
Otay River	HA-34-0.5	0.5	9	<LOD	<LOD	24291	<LOD	496	<LOD	52
Otay River	HA-34-1	1	<LOD	<LOD	<LOD	27065	16	906	<LOD	55
Otay River	HA-34-1.5	1.5	<LOD	<LOD	<LOD	20563	12	405	<LOD	37
Otay River	HA-35-0	0	11	<LOD	<LOD	29752	35	682	<LOD	66
Otay River	HA-35-0 DUP	0	<LOD	<LOD	32	32413	33	799	<LOD	91
Otay River	HA-35-0.5	0.5	<LOD	<LOD	33	34911	<LOD	567	<LOD	57
Otay River	HA-35-1	1	<LOD	<LOD	<LOD	16795	<LOD	264	<LOD	33
Otay River	HA-36-0	0	<LOD	<LOD	<LOD	18426	22	329	<LOD	35
Otay River	HA-36-0.5	0.5	<LOD	<LOD	<LOD	19989	22	455	<LOD	50
Otay River	HA-36-1	1	<LOD	<LOD	<LOD	19707	28	363	<LOD	57
Otay River	HA-36-1.5	1.5	<LOD	<LOD	<LOD	19598	22	421	<LOD	31
Otay River	HA-36-2	2	<LOD	<LOD	<LOD	20092	19	437	<LOD	40
Otay River	HA-37-0	0	<LOD	<LOD	<LOD	21632	17	467	<LOD	45
Otay River	HA-37-0.5	0.5	<LOD	<LOD	<LOD	22370	<LOD	502	<LOD	49
Otay River	HA-37-1	1	<LOD	<LOD	<LOD	18104	16	484	<LOD	27
Otay River	HA-37-1.5	1.5	<LOD	<LOD	<LOD	18592	<LOD	410	<LOD	32
Otay River	HA-37-2	2	<LOD	<LOD	<LOD	20904	18	546	<LOD	39
Otay River	HA-38-0	0	8	<LOD	<LOD	27867	14	550	<LOD	51
Otay River	HA-38-0 DUP	0	<LOD	<LOD	<LOD	24695	21	596	<LOD	44
Otay River	HA-38-0.5	0.5	<LOD	<LOD	<LOD	29685	14	625	<LOD	65

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Otay River	HA-38-1	1	<LOD	<LOD	33	25673	20	506	<LOD	51
Otay River	HA-38-1.5	1.5	<LOD	<LOD	<LOD	22565	17	511	<LOD	39
Otay River	HA-38-2	2	<LOD	193	<LOD	15592	<LOD	258	<LOD	41
Otay River	HA-39-0	0	<LOD	<LOD	<LOD	21375	29	493	<LOD	64
Otay River	HA-39-0.5	0.5	<LOD	<LOD	<LOD	21172	18	292	<LOD	57
Otay River	HA-39-1	1	10	<LOD	<LOD	21153	16	469	<LOD	42
Otay River	HA-39-1.5	1.5	<LOD	<LOD	<LOD	19137	23	306	<LOD	44
Otay River	HA-39-2	2	<LOD	<LOD	<LOD	30359	32	392	<LOD	43
Otay River	HA-40-0	0	<LOD	<LOD	<LOD	18128	19	310	<LOD	26
Otay River	HA-40-0 DUP	0	14	<LOD	<LOD	22268	23	609	<LOD	50
Otay River	HA-40-0.5	0.5	<LOD	<LOD	<LOD	15027	<LOD	313	<LOD	31
Otay River	HA-41-0	0	18	<LOD	44	35042	25	826	<LOD	123
Otay River	HA-41-0.5	0.5	14	<LOD	<LOD	33730	20	809	<LOD	116
Otay River	HA-41-1	1	<LOD	<LOD	32	26796	23	602	<LOD	58
Otay River	HA-41-1.5	1.5	<LOD	<LOD	31	32133	33	689	<LOD	181
Otay River	HA-41-2	2	<LOD	<LOD	<LOD	27688	17	531	<LOD	48
Otay River	HA-42-0	0	<LOD	<LOD	29	18660	15	278	<LOD	50
Otay River	HA-43-0	0	10	<LOD	31	27678	19	650	<LOD	69
Otay River	HA-43-0 DUP	0	12	<LOD	<LOD	31283	21	688	<LOD	72
Otay River	HA-43-0.5	0.5	<LOD	<LOD	36	28076	23	495	<LOD	67
Otay River	HA-43-1	1	<LOD	<LOD	45	25897	16	487	<LOD	73
Otay River	HA-43-1.5	1.5	10	<LOD	<LOD	27833	22	586	<LOD	76
Otay River	HA-43-2	2	10	<LOD	<LOD	17848	13	390	<LOD	40
Otay River	HA-44-0	0	<LOD	<LOD	<LOD	42356	32	737	<LOD	68
Otay River	HA-44-0.5	0.5	<LOD	<LOD	30	27782	25	615	<LOD	76
Otay River	HA-44-1	1	<LOD	<LOD	31.82	26795.99	23.3	601.74	<LOD	57.73
Otay River	HA-44-1.5	1.5	11	<LOD	<LOD	38499	<LOD	706	<LOD	60
Otay River	HA-44-2	2	<LOD	<LOD	<LOD	27688.08	16.8	531.19	<LOD	48.2
Otay River	HA-45-0	0	<LOD	<LOD	<LOD	30265	32	597	<LOD	104

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Otay River	HA-45-0 DUP	0	<LOD	<LOD	<LOD	29143	27	586	<LOD	64
Otay River	HA-45-0.5	0.5	<LOD	<LOD	29	28727	25	583	<LOD	53
Otay River	HA-45-1	1	<LOD	<LOD	41	29587	32	535	<LOD	99
Otay River	HA-45-1.5	1.5	<LOD	<LOD	<LOD	32599	28	717	<LOD	74
Otay River	HA-45-2	2	11	<LOD	<LOD	31025	21	590	<LOD	81
Otay River	HA-46-0	0	<LOD	<LOD	57	19456	<LOD	405	<LOD	51
Otay River	HA-46-0.5	0.5	<LOD	<LOD	<LOD	14275	<LOD	453	<LOD	41
Otay River	HA-46-1	1	<LOD	<LOD	38	15159	<LOD	280	<LOD	35
Otay River	HA-46-1.5	1.5	<LOD	<LOD	52	20243	<LOD	403	<LOD	47
Otay River	HA-46-2	2	<LOD	<LOD	50	19294	<LOD	407	<LOD	38
Otay River	HA-47-0	0	<LOD	<LOD	32	24428	25	541	<LOD	65
Otay River	HA-47-0.5	0.5	10	<LOD	<LOD	23882	18	487	<LOD	60
Otay River	HA-47-1	1	<LOD	<LOD	<LOD	22401	23	425	<LOD	62
Otay River	HA-48-0	0	<LOD	<LOD	<LOD	13360	19	263	<LOD	40
Otay River	HA-48-0.5	0.5	<LOD	<LOD	<LOD	13120	<LOD	243	<LOD	34
Otay River	HA-48-1	1	<LOD	<LOD	30	13633	12	241	<LOD	45
Otay River	HA-48-1.5	1.5	<LOD	<LOD	37	17714	13	400	<LOD	48
Otay River	HA-48-2	2	<LOD	<LOD	<LOD	17011	26	313	<LOD	58
Otay River	HA-49-0	0	10	<LOD	<LOD	22366	23	417	<LOD	37
Otay River	HA-49-0 DUP	0	40	<LOD	<LOD	27070	23	468	<LOD	56
Otay River	HA-49-0.5	0.5	14	<LOD	<LOD	23714	17	346	<LOD	62
Otay River	HA-49-1	1	<LOD	<LOD	<LOD	24375	32	337	<LOD	59
Otay River	HA-50-0	0	8	<LOD	<LOD	20339	10	568	<LOD	45
Sewer	TS-1-1	1	8	<LOD	<LOD	22822	14	449	<LOD	45
Sewer	TS-1-3	3	9	<LOD	<LOD	30654	14	753	<LOD	53
Sewer	TS-1-5	5	<LOD	<LOD	<LOD	42030	13	897	<LOD	71
Sewer	TS-1-6.5	6.5	<LOD	<LOD	<LOD	35321	17	833	<LOD	65
Sewer	TS-2-1	1	<LOD	<LOD	<LOD	29060	30	741	<LOD	70
Sewer	TS-2-3	3	<LOD	<LOD	31	24210	21	485	<LOD	68

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Sewer	TS-2-5	5	9	<LOD	<LOD	39057	<LOD	841	<LOD	63
Sewer	TS-2-7.5	7.5	<LOD	<LOD	30	28671	14	720	<LOD	38
Sewer	TS-3-1	1	<LOD	<LOD	37	30794	21	760	<LOD	53
Sewer	TS-3-3	3	<LOD	<LOD	<LOD	31290	23	698	<LOD	62
Sewer	TS-3-3 DUP	3	<LOD	<LOD	<LOD	30132	19	694	<LOD	61
Sewer	TS-3-5	5	<LOD	<LOD	<LOD	39038	20	962	<LOD	53
Sewer	TS-3-6.5	6.5	<LOD	<LOD	<LOD	38730	12	944	<LOD	59
Sewer	TS-4-1	1	10	<LOD	39	30963	25	682	<LOD	60
Sewer	TS-4-3	3	<LOD	<LOD	<LOD	36486	13	753	<LOD	73
Sewer	TS-4-5	5	<LOD	<LOD	<LOD	34054	18	950	<LOD	41
Sewer	TS-4-6.5	6.5	<LOD	<LOD	<LOD	35095	<LOD	864	<LOD	61
Sewer	TS-5-1	1	9	<LOD	32	32036	13	877	<LOD	73
Sewer	TS-5-1 DUP	1	<LOD	<LOD	39	34620	15	1013	<LOD	60
Sewer	TS-5-3	3	<LOD	<LOD	<LOD	36407	16	920	<LOD	72
Sewer	TS-6-1	1	<LOD	<LOD	<LOD	37602	26	978	<LOD	77
Sewer	TS-6-3	3	12	<LOD	<LOD	41863	16	939	<LOD	78
Sewer	TS-6-5	5	9	<LOD	<LOD	42905	13	965	<LOD	72
Sewer	TS-6-6	6	<LOD	<LOD	<LOD	36260	14	710	<LOD	57
Sewer	TS-7-1	1	<LOD	<LOD	<LOD	30519	16	759	<LOD	52
Sewer	TS-7-3	3	9	<LOD	45	29855	13	688	<LOD	53
Sewer	TS-7-5	5	<LOD	<LOD	<LOD	36570	18	762	<LOD	63
Sewer	TS-7-6	6	<LOD	<LOD	<LOD	30294	<LOD	810	<LOD	41
Sewer	TS-8-1	1	18	<LOD	37	27169	152	806	<LOD	47
Sewer	TS-8-3	3	<LOD	<LOD	<LOD	29306	28	731	<LOD	42
Sewer	TS-8-5	5	<LOD	<LOD	<LOD	31242	13	709	<LOD	58
Sewer	TS-8-7.5	7.5	<LOD	<LOD	<LOD	30333	16	556	<LOD	49
Sewer	TS-9-1	1	<LOD	<LOD	<LOD	27445	64	550	<LOD	42
Sewer	TS-9-1 DUP	1	<LOD	<LOD	<LOD	28811	77	790	<LOD	50
Sewer	TS-9-3	3	<LOD	<LOD	33	27672	43	457	<LOD	59

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Sewer	TS-10-1	1	<LOD	<LOD	<LOD	23744	35	518	<LOD	35
Sewer	TS-10-3	3	<LOD	<LOD	<LOD	27801	97	709	<LOD	47
Sewer	TS-10-4	4	<LOD	<LOD	<LOD	24801	106	533	<LOD	38
Sewer	TS-11-1	1	<LOD	<LOD	<LOD	27040	61	691	<LOD	52
Sewer	TS-11-3	3	<LOD	<LOD	33	25174	78	596	<LOD	42
Sewer	TS-11-5	5	<LOD	<LOD	29	25045	32	600	<LOD	46
Sewer	TS-11-7.5	7.5	<LOD	<LOD	<LOD	25325	52	946	<LOD	50
Sewer	TS-12-1	1	<LOD	<LOD	<LOD	27596	125	591	<LOD	46
Sewer	TS-12-3	3	16	<LOD	<LOD	24675	191	484	<LOD	51
Sewer	TS-12-3 DUP	3	20	<LOD	<LOD	24375	385	504	<LOD	49
Sewer	TS-12-4	4	14	<LOD	<LOD	26537	233	595	<LOD	65
Sewer	TS-13-1	1	9	<LOD	<LOD	27990	49	716	<LOD	46
Sewer	TS-13-3	3	<LOD	<LOD	<LOD	25393	34	543	<LOD	53
Sewer	TS-14-1	1	76	<LOD	<LOD	27874	563	548	<LOD	42
Sewer	TS-14-3	3	<LOD	<LOD	<LOD	31159	28	784	<LOD	58
Sewer	TS-14-4	4	<LOD	<LOD	<LOD	30321	29	668	<LOD	66
Sewer	TS-15-1	1	<LOD	<LOD	<LOD	29400	38	520	<LOD	48
Sewer	TS-15-3	3	<LOD	<LOD	<LOD	36354	21	712	<LOD	72
Sewer	TS-15-5	5	<LOD	<LOD	<LOD	36008	15	808	<LOD	68
Sewer	TS-16-1	1	<LOD	<LOD	29	26514	24	661	<LOD	40
Sewer	TS-16-1 DUP	1	<LOD	<LOD	52	26246	36	742	<LOD	60
Sewer	TS-16-3	3	9	<LOD	<LOD	27173	25	555	<LOD	58
Sewer	TS-17-1	1	<LOD	<LOD	31	30110	22	703	<LOD	70
Sewer	TS-17-3	3	<LOD	<LOD	<LOD	25368	25	620	<LOD	54
Sewer	TS-18-1	1	<LOD	<LOD	<LOD	30397	15	726	<LOD	51
Sewer	TS-18-3	3	8	<LOD	33	27006	13	555	<LOD	40
Sewer	TS-19-1	1	<LOD	<LOD	<LOD	30390	21	1302	<LOD	63
Sewer	TS-19-3	3	<LOD	<LOD	<LOD	39469	17	869	<LOD	67
Sewer	TS-19-3 DUP	3	<LOD	<LOD	30	29253	21	707	<LOD	50

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Sewer	TS-19-4	4	<LOD	<LOD	<LOD	34559	22	969	<LOD	52
Sewer	TS-20-1	1	<LOD	<LOD	<LOD	28101	18	664	<LOD	64
Sewer	TS-20-3	3	<LOD	<LOD	<LOD	37475	<LOD	738	<LOD	60
Sewer	TS-20-5	5	<LOD	<LOD	<LOD	32469	20	740	<LOD	51
Sewer	TS-21-1	1	<LOD	<LOD	43	31469	29	665	<LOD	65
Sewer	TS-21-3	3	<LOD	<LOD	<LOD	30306	14	975	<LOD	48
Sewer	TS-21-4	4	<LOD	<LOD	<LOD	33958	19	782	<LOD	60
Sewer	TS-22-1	1	<LOD	<LOD	<LOD	37925	20	875	<LOD	60
Sewer	TS-22-3	3	<LOD	<LOD	<LOD	34742	16	696	<LOD	60
Sewer	TS-22-4.5	4.5	<LOD	<LOD	32	32934	19	753	<LOD	66
Shooting Range Field	HAF-1-0	0	<LOD	<LOD	<LOD	18461	37	1228	<LOD	109
Shooting Range Field	HAF-1-0.5	0.5	<LOD	<LOD	<LOD	14792	32	553	<LOD	58
Shooting Range Field	HAF-1-1	1	9	<LOD	<LOD	25185	37	590	<LOD	106
Shooting Range Field	HAF-1-1.5	1.5	<LOD	<LOD	<LOD	18453	57	521	<LOD	138
Shooting Range Field	HAF-1-2	2	<LOD	<LOD	<LOD	19354	34	679	<LOD	50
Shooting Range Field	HAF-2-0	0	<LOD	<LOD	39	28202	23	549	<LOD	63
Shooting Range Field	HAF-2-0 DUP	0	<LOD	<LOD	30	28144	22	659	<LOD	76
Shooting Range Field	HAF-2-0.5	0.5	<LOD	<LOD	<LOD	31466	24	549	<LOD	62
Shooting Range Field	HAF-2-1	1	<LOD	<LOD	<LOD	30942	12	707	<LOD	61
Shooting Range Field	HAF-2-1.5	1.5	<LOD	<LOD	<LOD	31037	12	713	<LOD	42
Shooting Range Field	HAF-2-2	2	<LOD	<LOD	<LOD	37213	15	739	<LOD	50
Shooting Range Field	HAF-3-0	0	<LOD	<LOD	<LOD	30315	30	679	<LOD	63
Shooting Range Field	HAF-3-0.5	0.5	<LOD	<LOD	<LOD	35260	22	656	<LOD	64
Shooting Range Field	HAF-3-1	1	<LOD	<LOD	<LOD	35692	18	740	<LOD	51
Shooting Range Field	HAF-3-1.5	1.5	<LOD	312	<LOD	36039	14	617	<LOD	51
Shooting Range Field	HAF-3-2	2	10	<LOD	<LOD	33410	<LOD	664	<LOD	38
Shooting Range Field	HAF-23-0	0	10	<LOD	42	21906	<LOD	353	<LOD	56
Shooting Range Field	HAF-23-0.5	0.5	8	<LOD	<LOD	20282	<LOD	342	<LOD	38
Shooting Range Field	HAF-23-1	1	<LOD	<LOD	<LOD	19237	17	340	<LOD	51

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-23-1.5	1.5	<LOD	<LOD	<LOD	21152	27	465	<LOD	56
Shooting Range Field	HAF-23-2	2	<LOD	<LOD	<LOD	23159	16	428	<LOD	48
Shooting Range Field	HAF-24-0	0	<LOD	<LOD	42	27575	29	654	<LOD	72
Shooting Range Field	HAF-24-0 DUP	0	<LOD	<LOD	61	28312	26	650	<LOD	64
Shooting Range Field	HAF-24-0.5	0.5	<LOD	<LOD	<LOD	27937	<LOD	793	<LOD	40
Shooting Range Field	HAF-24-1.5	1.5	<LOD	<LOD	<LOD	32992	<LOD	804	<LOD	61
Shooting Range Field	HAF-24-2	2	<LOD	<LOD	<LOD	33494	13	882	<LOD	42
Shooting Range Field	HAF-44-0	0	<LOD	<LOD	54	23542	36	594	<LOD	59
Shooting Range Field	HAF-44-0.5	0.5	<LOD	<LOD	33	25835	28	570	<LOD	39
Shooting Range Field	HAF-44-1.5	1.5	<LOD	<LOD	<LOD	24769	14	664	<LOD	42
Shooting Range Field	HAF-44-2	2	<LOD	<LOD	40	27129	20	690	<LOD	50
Shooting Range Field	HAF-45-0	0	<LOD	215	62	25296	15	523	<LOD	45
Shooting Range Field	HAF-45-0 DUP	0	<LOD	<LOD	<LOD	33478	21	678	<LOD	74
Shooting Range Field	HAF-45-0.5	0.5	<LOD	<LOD	<LOD	26764	15	610	<LOD	61
Shooting Range Field	HAF-45-1	1	<LOD	<LOD	<LOD	28959	17	678	<LOD	53
Shooting Range Field	HAF-45-1.5	1.5	<LOD	<LOD	34	32391	22	815	<LOD	57
Shooting Range Field	HAF-45-2	2	11	<LOD	<LOD	31358	12	703	<LOD	61
Shooting Range Field	HAF-65-0	0	<LOD	<LOD	<LOD	17652	23	367	<LOD	44
Shooting Range Field	HAF-65-0 DUP	0	<LOD	<LOD	50	24358	31	395	<LOD	66
Shooting Range Field	HAF-65-0.5	0.5	<LOD	<LOD	<LOD	20087	15	279	<LOD	35
Shooting Range Field	HAF-65-1	1	<LOD	<LOD	<LOD	18666	19	282	<LOD	48
Shooting Range Field	HAF-65-1.5	1.5	8	<LOD	<LOD	22206	17	515	<LOD	42
Shooting Range Field	HAF-65-2	2	10	<LOD	<LOD	21314	<LOD	359	<LOD	56
Shooting Range Field	HAF-66-0	0	<LOD	<LOD	51	26031	37	644	<LOD	78
Shooting Range Field	HAF-66-0.5	0.5	<LOD	<LOD	49	25936	36	633	<LOD	69
Shooting Range Field	HAF-66-1	1	11	<LOD	42	26509	27	711	<LOD	71
Shooting Range Field	HAF-66-1.5	1.5	<LOD	<LOD	<LOD	25774	24	686	<LOD	69
Shooting Range Field	HAF-66-2	2	<LOD	<LOD	<LOD	25949	24	574	<LOD	80
Shooting Range Field	HAF-67-0	0	<LOD	<LOD	63	27857	28	522	<LOD	71

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-67-0 DUP	0	10	<LOD	46	28150	28	536	<LOD	79
Shooting Range Field	HAF-67-0.5	0.5	<LOD	<LOD	55	23765	17	515	<LOD	65
Shooting Range Field	HAF-67-1	1	<LOD	<LOD	65	30915	15	522	<LOD	65
Shooting Range Field	HAF-67-1.5	1.5	<LOD	<LOD	43	28774	16	518	<LOD	75
Shooting Range Field	HAF-67-2	2	<LOD	<LOD	33	33821	23	736	<LOD	77
Shooting Range Field	HAF-68-0	0	<LOD	<LOD	42	27041	25	665	<LOD	50
Shooting Range Field	HAF-68-0.5	0.5	9	<LOD	<LOD	27434	<LOD	709	<LOD	48
Shooting Range Field	HAF-68-1	1	<LOD	<LOD	<LOD	30122	14	626	<LOD	55
Shooting Range Field	HAF-68-1.5	1.5	<LOD	<LOD	<LOD	33150	18	758	<LOD	41
Shooting Range Field	HAF-68-2	2	<LOD	<LOD	<LOD	41040	14	760	<LOD	70
Shooting Range Field	HAF-86-0	0	<LOD	<LOD	37	23501	56	495	<LOD	76
Shooting Range Field	HAF-86-0.5	0.5	<LOD	<LOD	<LOD	21693	22	340	<LOD	46
Shooting Range Field	HAF-86-1	1	<LOD	<LOD	<LOD	21402	22	425	<LOD	54
Shooting Range Field	HAF-86-1.5	1.5	<LOD	<LOD	<LOD	20691	<LOD	331	<LOD	39
Shooting Range Field	HAF-86-2	2	<LOD	<LOD	<LOD	18650	<LOD	264	<LOD	32
Shooting Range Field	HAF-87-0	0	<LOD	<LOD	53	21533	26	461	<LOD	63
Shooting Range Field	HAF-87-0.75	0.75	<LOD	<LOD	<LOD	24554	19	740	<LOD	35
Shooting Range Field	HAF-87-1	1	<LOD	215	<LOD	24326	19	506	<LOD	65
Shooting Range Field	HAF-87-1.5	1.5	<LOD	<LOD	<LOD	21665	16	455	<LOD	44
Shooting Range Field	HAF-87-2	2	<LOD	<LOD	<LOD	22827	20	471	<LOD	36
Shooting Range Field	HAF-88-0	0	<LOD	<LOD	<LOD	20317	22	487	<LOD	51
Shooting Range Field	HAF-88-0 DUP	0	9	<LOD	<LOD	17597	<LOD	311	<LOD	44
Shooting Range Field	HAF-88-0.5	0.5	<LOD	<LOD	<LOD	20840	<LOD	485	<LOD	48
Shooting Range Field	HAF-88-1	1	<LOD	<LOD	<LOD	20672	<LOD	463	<LOD	46
Shooting Range Field	HAF-88-1.5	1.5	<LOD	<LOD	31	25464	20	574	<LOD	45
Shooting Range Field	HAF-88-2	2	<LOD	<LOD	29	26238	22	545	<LOD	49
Shooting Range Field	HAF-89-0	0	<LOD	<LOD	<LOD	21620	358	605	<LOD	46
Shooting Range Field	HAF-89-0.5	0.5	<LOD	<LOD	<LOD	22960	44	598	<LOD	53
Shooting Range Field	HAF-89-1	1	<LOD	<LOD	31	25811	14	658	<LOD	56

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-89-1.5	1.5	<LOD	<LOD	<LOD	25824	13	635	<LOD	54
Shooting Range Field	HAF-89-2	2	<LOD	<LOD	<LOD	24211	27	535	<LOD	45
Shooting Range Field	HAF-90-0	0	<LOD	<LOD	<LOD	26588	51	917	<LOD	48
Shooting Range Field	HAF-90-0 DUP	0	<LOD	<LOD	36	24422	16	859	<LOD	52
Shooting Range Field	HAF-90-0.5	0.5	<LOD	<LOD	30	24984	17	1017	<LOD	46
Shooting Range Field	HAF-90-1	1	<LOD	<LOD	33	26830	<LOD	932	<LOD	38
Shooting Range Field	HAF-90-1.5	1.5	11	<LOD	30	29274	<LOD	1205	<LOD	53
Shooting Range Field	HAF-90-2	2	<LOD	<LOD	36	35866	19	1254	<LOD	67
Shooting Range Field	HAF-91-0	0	<LOD	<LOD	<LOD	25236	109	797	<LOD	54
Shooting Range Field	HAF-91-0 DUP	0	11	<LOD	31	26471	55	824	<LOD	53
Shooting Range Field	HAF-91-0.5	0.5	<LOD	<LOD	46	26362	14	686	<LOD	54
Shooting Range Field	HAF-91-1	1	<LOD	<LOD	<LOD	24694	<LOD	775	<LOD	32
Shooting Range Field	HAF-91-1.5	1.5	<LOD	<LOD	<LOD	43663	14	1140	<LOD	86
Shooting Range Field	HAF-91-2	2	<LOD	<LOD	<LOD	44735	25	935	<LOD	72
Shooting Range Field	HAF-92-0	0	18	<LOD	<LOD	23420	359	692	<LOD	44
Shooting Range Field	HAF-92-0.5	0.5	<LOD	<LOD	<LOD	27375	31	590	<LOD	56
Shooting Range Field	HAF-92-1	1	<LOD	<LOD	<LOD	22801	13	671	<LOD	26
Shooting Range Field	HAF-92-1.5	1.5	9	<LOD	<LOD	35621	12	985	<LOD	59
Shooting Range Field	HAF-92-2	2	<LOD	<LOD	<LOD	42698	14	874	<LOD	79
Shooting Range Field	HAF-101-0	0	<LOD	<LOD	<LOD	21113	26	489	<LOD	46
Shooting Range Field	HAF-101-0.5	0.5	<LOD	<LOD	31	19624	21	526	<LOD	43
Shooting Range Field	HAF-101-1	1	<LOD	<LOD	<LOD	21381	<LOD	547	<LOD	29
Shooting Range Field	HAF-101-1.5	1.5	<LOD	<LOD	<LOD	26480	14	702	<LOD	43
Shooting Range Field	HAF-101-2	2	<LOD	<LOD	<LOD	29323	18	725	<LOD	41
Shooting Range Field	HAF-102-0	0	<LOD	<LOD	45	23952	21	619	<LOD	62
Shooting Range Field	HAF-102-0 DUP	0	<LOD	<LOD	54	31688	29	680	<LOD	76
Shooting Range Field	HAF-102-0.5	0.5	<LOD	<LOD	42	25540	20	615	<LOD	50
Shooting Range Field	HAF-102-1	1	<LOD	<LOD	38	27130	14	678	<LOD	50
Shooting Range Field	HAF-102-1.5	1.5	<LOD	<LOD	38	29785	20	835	<LOD	48

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-102-2	2	<LOD	<LOD	<LOD	23402	17	607	<LOD	47
Shooting Range Field	HAF-103-0	0	<LOD	<LOD	60	22435	19	632	<LOD	48
Shooting Range Field	HAF-103-0.5	0.5	<LOD	<LOD	34	26914	26	886	<LOD	51
Shooting Range Field	HAF-103-1	1	<LOD	<LOD	<LOD	31103	14	1107	<LOD	65
Shooting Range Field	HAF-103-1.5	1.5	<LOD	<LOD	<LOD	34856	16	940	<LOD	79
Shooting Range Field	HAF-103-2	2	<LOD	<LOD	<LOD	36574	17	1041	<LOD	77
Shooting Range Field	HAF-104-0	0	10	<LOD	71	25694	21	681	<LOD	66
Shooting Range Field	HAF-104-0 DUP	0	<LOD	<LOD	49	30273	22	648	<LOD	79
Shooting Range Field	HAF-104-0.5	0.5	10	<LOD	56	22585	19	498	<LOD	69
Shooting Range Field	HAF-104-1	1	<LOD	<LOD	<LOD	24355	18	544	<LOD	51
Shooting Range Field	HAF-104-1.5	1.5	11	<LOD	<LOD	22530	16	725	<LOD	66
Shooting Range Field	HAF-104-2	2	<LOD	<LOD	<LOD	31312	<LOD	922	<LOD	76
Shooting Range Field	HAF-108-0	0	<LOD	<LOD	64	23408	45	624	<LOD	79
Shooting Range Field	HAF-108-0.5	0.5	10	<LOD	71	25595	34	637	<LOD	78
Shooting Range Field	HAF-108-1	1	<LOD	<LOD	46	25092	27	662	<LOD	65
Shooting Range Field	HAF-108-1.5	1.5	<LOD	<LOD	32	24534	25	601	<LOD	65
Shooting Range Field	HAF-108-2	2	10	<LOD	<LOD	21741	16	496	<LOD	59
Shooting Range Field	HAF-109-0	0	<LOD	<LOD	63	19581	51	452	<LOD	53
Shooting Range Field	HAF-109-0.5	0.5	<LOD	<LOD	<LOD	22077	20	518	<LOD	53
Shooting Range Field	HAF-109-1	1	9	<LOD	<LOD	24752	20	657	<LOD	45
Shooting Range Field	HAF-109-1.5	1.5	9	<LOD	<LOD	22945	16	652	<LOD	49
Shooting Range Field	HAF-109-2	2	9	<LOD	<LOD	21949	19	728	<LOD	49
Shooting Range Field	HAF-110-0	0	<LOD	<LOD	42	16132	41	425	<LOD	47
Shooting Range Field	HAF-110-0 DUP	0	<LOD	<LOD	42	16528	31	476	<LOD	46
Shooting Range Field	HAF-110-0.5	0.5	<LOD	<LOD	31	19354	23	542	<LOD	41
Shooting Range Field	HAF-110-1	1	<LOD	<LOD	<LOD	22028	19	558	<LOD	34
Shooting Range Field	HAF-110-1.5	1.5	<LOD	<LOD	<LOD	25759	20	685	<LOD	55
Shooting Range Field	HAF-110-2	2	<LOD	<LOD	32	23764	24	672	<LOD	52
Shooting Range Field	HAF-111-0	0	13	<LOD	<LOD	23277	24	713	<LOD	57

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-111-0 DUP	0	<LOD	<LOD	35	20452	19	550	<LOD	45
Shooting Range Field	HAF-111-0.5	0.5	<LOD	<LOD	<LOD	22026	21	677	<LOD	42
Shooting Range Field	HAF-111-1	1	<LOD	<LOD	<LOD	24678	16	727	<LOD	53
Shooting Range Field	HAF-111-1.5	1.5	<LOD	<LOD	<LOD	25420	18	645	<LOD	59
Shooting Range Field	HAF-111-2	2	<LOD	<LOD	<LOD	24272	21	473	<LOD	43
Shooting Range Field	HAF-112-0	0	<LOD	<LOD	<LOD	19193	122	584	<LOD	50
Shooting Range Field	HAF-112-0.5	0.5	<LOD	<LOD	33	20644	17	808	<LOD	36
Shooting Range Field	HAF-112-1	1	9	<LOD	<LOD	22749	22	875	<LOD	56
Shooting Range Field	HAF-112-1.5	1.5	<LOD	<LOD	29	22471	21	735	<LOD	56
Shooting Range Field	HAF-112-2	2	<LOD	<LOD	42	23075	20	832	<LOD	48
Shooting Range Field	HAF-113-0	0	<LOD	<LOD	36	20515	428	922	<LOD	44
Shooting Range Field	HAF-113-0 DUP	0	14	<LOD	<LOD	18700	122	669	<LOD	37
Shooting Range Field	HAF-113-0.5	0.5	8	<LOD	<LOD	20557	14	761	<LOD	45
Shooting Range Field	HAF-113-1	1	<LOD	<LOD	28	17370	16	690	<LOD	40
Shooting Range Field	HAF-113-1.5	1.5	<LOD	<LOD	40	22017	16	851	<LOD	42
Shooting Range Field	HAF-113-2	2	10	<LOD	<LOD	25224	<LOD	993	<LOD	46
Shooting Range Field	HAF-114-0	0	16	<LOD	<LOD	24335	275	551	<LOD	32
Shooting Range Field	HAF-114-0.5	0.5	11	<LOD	<LOD	24049	69	610	<LOD	45
Shooting Range Field	HAF-114-1	1	<LOD	<LOD	<LOD	25596	42	623	<LOD	37
Shooting Range Field	HAF-114-1.5	1.5	28	<LOD	33	26401	221	574	<LOD	53
Shooting Range Field	HAF-114-2	2	15	<LOD	<LOD	26049	207	695	<LOD	56
Shooting Range Field	HAF-114-2.5	2.5	<LOD	<LOD	<LOD	25624	199	591	<LOD	45
Shooting Range Field	HAF-122-0	0	<LOD	<LOD	35	28255	34	549	<LOD	76
Shooting Range Field	HAF-122-0 DUP	0	10	<LOD	30	29288	19	642	<LOD	63
Shooting Range Field	HAF-122-0.5	0.5	<LOD	<LOD	<LOD	23851	13	375	<LOD	55
Shooting Range Field	HAF-122-1	1	<LOD	<LOD	42	20849	28	372	<LOD	50
Shooting Range Field	HAF-122-1.5	1.5	<LOD	<LOD	<LOD	20276	20	486	<LOD	49
Shooting Range Field	HAF-122-2	2	10	<LOD	40	27312	27	513	<LOD	55
Shooting Range Field	HAF-123-0	0	<LOD	<LOD	35	28484	24	611	<LOD	59

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-123-0 DUP	0	<LOD	<LOD	<LOD	31713	24	669	<LOD	74
Shooting Range Field	HAF-123-0.5	0.5	<LOD	<LOD	<LOD	28383	14	528	<LOD	66
Shooting Range Field	HAF-123-1	1	<LOD	<LOD	<LOD	29994	24	614	<LOD	69
Shooting Range Field	HAF-123-1.5	1.5	<LOD	<LOD	34	30422	22	654	<LOD	65
Shooting Range Field	HAF-123-2	2	<LOD	<LOD	<LOD	30685	19	1045	<LOD	65
Shooting Range Field	HAF-124-0	0	<LOD	<LOD	75	20034	28	412	<LOD	59
Shooting Range Field	HAF-124-0 DUP	0	<LOD	<LOD	<LOD	29615	17	526	<LOD	76
Shooting Range Field	HAF-124-0.5	0.5	<LOD	<LOD	57	18790	24	400	<LOD	39
Shooting Range Field	HAF-124-1	1	<LOD	<LOD	33	20331	18	583	<LOD	53
Shooting Range Field	HAF-124-1.5	1.5	<LOD	<LOD	<LOD	23135	16	583	<LOD	51
Shooting Range Field	HAF-124-2	2	<LOD	<LOD	54	20304	17	571	<LOD	39
Shooting Range Field	HAF-125-0	0	<LOD	<LOD	40	24780	23	928	<LOD	51
Shooting Range Field	HAF-125-0.5	0.5	<LOD	<LOD	61	22426	23	499	<LOD	51
Shooting Range Field	HAF-125-1	1	<LOD	<LOD	<LOD	22333	16	533	<LOD	50
Shooting Range Field	HAF-125-1.5	1.5	<LOD	<LOD	<LOD	25439	16	669	<LOD	63
Shooting Range Field	HAF-125-2	2	<LOD	<LOD	51	22533	26	526	<LOD	57
Shooting Range Field	HAF-129-0	0	<LOD	<LOD	33	18170	41	500	<LOD	72
Shooting Range Field	HAF-129-0.5	0.5	10	<LOD	73	19752	25	437	<LOD	49
Shooting Range Field	HAF-129-1	1	12	<LOD	67	18207	21	457	<LOD	42
Shooting Range Field	HAF-129-1.5	1.5	<LOD	<LOD	<LOD	21667	22	470	<LOD	60
Shooting Range Field	HAF-129-2	2	<LOD	<LOD	<LOD	24272	14	581	<LOD	39
Shooting Range Field	HAF-130-0	0	<LOD	<LOD	51	19412	42	491	<LOD	70
Shooting Range Field	HAF-130-0.75	0.75	<LOD	<LOD	51	22117	36	512	<LOD	59
Shooting Range Field	HAF-130-1	1	<LOD	<LOD	40	21925	28	588	<LOD	53
Shooting Range Field	HAF-130-1.5	1.5	<LOD	<LOD	39	24071	26	821	<LOD	48
Shooting Range Field	HAF-130-2	2	<LOD	<LOD	<LOD	20758	18	365	<LOD	42
Shooting Range Field	HAF-131-0	0	<LOD	<LOD	68	22266	93	583	<LOD	65
Shooting Range Field	HAF-131-0 DUP	0	<LOD	<LOD	57	22528	47	581	<LOD	68
Shooting Range Field	HAF-131-0.5	0.5	<LOD	<LOD	<LOD	23233	22	594	<LOD	75

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-131-1	1	<LOD	<LOD	<LOD	18149	23	473	<LOD	34
Shooting Range Field	HAF-131-1.5	1.5	10	<LOD	<LOD	21538	16	579	<LOD	50
Shooting Range Field	HAF-131-2	2	<LOD	<LOD	<LOD	21162	28	522	<LOD	48
Shooting Range Field	HAF-132-0	0	<LOD	<LOD	36	24396	404	559	<LOD	62
Shooting Range Field	HAF-132-0.5	0.5	<LOD	<LOD	<LOD	21000	79	488	<LOD	56
Shooting Range Field	HAF-132-0.5 DUP	0.5	<LOD	<LOD	58	22927	112	482	<LOD	62
Shooting Range Field	HAF-132-1	1	<LOD	<LOD	31	23783	27	840	<LOD	60
Shooting Range Field	HAF-132-1.5	1.5	<LOD	<LOD	<LOD	25672	28	969	<LOD	50
Shooting Range Field	HAF-132-2	2	<LOD	<LOD	<LOD	24237	23	877	<LOD	55
Shooting Range Field	HAF-133-0	0	25	<LOD	<LOD	17556	429	578	<LOD	35
Shooting Range Field	HAF-133-0.5	0.5	<LOD	<LOD	<LOD	24178	38	479	<LOD	66
Shooting Range Field	HAF-133-1	1	<LOD	<LOD	<LOD	25715	23	583	<LOD	51
Shooting Range Field	HAF-133-1.5	1.5	<LOD	<LOD	<LOD	25986	21	482	<LOD	63
Shooting Range Field	HAF-133-2	2	<LOD	<LOD	<LOD	23427	19	592	<LOD	41
Shooting Range Field	HAF-134-0	0	<LOD	<LOD	<LOD	19825	28	433	<LOD	52
Shooting Range Field	HAF-134-0 DUP	0	<LOD	<LOD	<LOD	20287	42	492	<LOD	42
Shooting Range Field	HAF-134-0.5	0.5	<LOD	<LOD	28	20506	16	547	<LOD	41
Shooting Range Field	HAF-134-1	1	<LOD	<LOD	<LOD	21317	22	530	<LOD	33
Shooting Range Field	HAF-134-1.5	1.5	<LOD	<LOD	27	20182	<LOD	438	<LOD	36
Shooting Range Field	HAF-134-2	2	<LOD	<LOD	<LOD	22122	13	491	<LOD	52
Shooting Range Field	HAF-135-0	0	<LOD	<LOD	<LOD	17708	28	441	<LOD	45
Shooting Range Field	HAF-135-0.5	0.5	<LOD	<LOD	<LOD	16662	20	392	<LOD	42
Shooting Range Field	HAF-135-1	1	<LOD	<LOD	<LOD	19935	19	472	<LOD	37
Shooting Range Field	HAF-135-1.5	1.5	<LOD	<LOD	<LOD	21869	29	429	<LOD	34
Shooting Range Field	HAF-135-2	2	<LOD	<LOD	<LOD	22789	20	561	<LOD	52
Shooting Range Field	HAF-136-0	0	<LOD	<LOD	<LOD	17098	38	538	<LOD	38
Shooting Range Field	HAF-136-0 DUP	0	<LOD	<LOD	<LOD	19669	15	393	<LOD	49
Shooting Range Field	HAF-136-0.5	0.5	<LOD	<LOD	<LOD	21753	17	457	<LOD	37
Shooting Range Field	HAF-136-1	1	<LOD	<LOD	<LOD	28222	29	773	<LOD	74

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-136-1.5	1.5	<LOD	273	30	26311	27	1220	<LOD	64
Shooting Range Field	HAF-136-2	2	<LOD	<LOD	33	25467	21	453	<LOD	54
Shooting Range Field	HAF-137-0	0	19	<LOD	31	21413	326	372	<LOD	68
Shooting Range Field	HAF-137-0 DUP	0	<LOD	<LOD	<LOD	20713	20	493	<LOD	47
Shooting Range Field	HAF-137-0.5	0.5	9	<LOD	37	25300	<LOD	516	<LOD	53
Shooting Range Field	HAF-137-1	1	9	<LOD	30	24825	32	525	<LOD	60
Shooting Range Field	HAF-137-1.5	1.5	9	<LOD	50	24665	20	507	<LOD	72
Shooting Range Field	HAF-137-2	2	<LOD	<LOD	32	24933	29	544	<LOD	61
Shooting Range Field	HAF-138-0	0	<LOD	<LOD	<LOD	21788	1002	837	<LOD	44
Shooting Range Field	HAF-138-0.5	0.5	<LOD	<LOD	<LOD	21614	20	811	<LOD	54
Shooting Range Field	HAF-138-1	1	<LOD	<LOD	<LOD	20737	17	731	<LOD	41
Shooting Range Field	HAF-138-1.5	1.5	<LOD	<LOD	40	20141	18	721	<LOD	47
Shooting Range Field	HAF-138-2	2	<LOD	<LOD	34	23416	23	962	<LOD	43
Shooting Range Field	HAF-139-0	0	<LOD	<LOD	<LOD	21439	265	480	<LOD	45
Shooting Range Field	HAF-139-0.5	0.5	10	<LOD	<LOD	24785	27	481	<LOD	54
Shooting Range Field	HAF-139-1	1	<LOD	<LOD	65	25626	21	515	<LOD	49
Shooting Range Field	HAF-139-1.5	1.5	11	<LOD	36	29984	22	672	<LOD	60
Shooting Range Field	HAF-139-2	2	<LOD	<LOD	<LOD	28100	12	786	<LOD	45
Shooting Range Field	HAF-140-0	0	13	<LOD	51	24513	181	473	<LOD	68
Shooting Range Field	HAF-140-0 DUP	0	<LOD	<LOD	30	24738	26	545	<LOD	63
Shooting Range Field	HAF-140-0.5	0.5	<LOD	<LOD	55	25310	43	600	<LOD	60
Shooting Range Field	HAF-140-1	1	<LOD	<LOD	<LOD	28866	17	747	<LOD	62
Shooting Range Field	HAF-140-1.5	1.5	<LOD	<LOD	49	27055	28	560	<LOD	60
Shooting Range Field	HAF-140-2	2	<LOD	<LOD	<LOD	29599	20	860	<LOD	57
Shooting Range Field	HAF-141-0	0	36	<LOD	51	21765	821	499	<LOD	58
Shooting Range Field	HAF-141-0.5	0.5	44	<LOD	102	25122	1458	514	<LOD	80
Shooting Range Field	HAF-141-1	1	60	<LOD	53	25376	934	476	<LOD	74
Shooting Range Field	HAF-141-1.5	1.5	<LOD	<LOD	34	25470	31	554	<LOD	59
Shooting Range Field	HAF-141-2	2	<LOD	<LOD	46	25868	23	723	<LOD	69

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-142-0	0	15	<LOD	31	26268	56	595	<LOD	62
Shooting Range Field	HAF-142-0 DUP	0	<LOD	<LOD	<LOD	22125	13	387	<LOD	44
Shooting Range Field	HAF-142-0.5	0.5	<LOD	<LOD	<LOD	23647	24	761	<LOD	44
Shooting Range Field	HAF-142-1	1	10	<LOD	<LOD	23719	15	961	<LOD	42
Shooting Range Field	HAF-142-1.5	1.5	<LOD	<LOD	30	23346	15	927	<LOD	44
Shooting Range Field	HAF-142-2	2	<LOD	<LOD	<LOD	23863	22	1047	<LOD	36
Shooting Range Field	HAF-143-0	0	9	<LOD	29	26242	29	464	<LOD	57
Shooting Range Field	HAF-143-0.5	0.5	<LOD	<LOD	<LOD	22053	13	370	<LOD	48
Shooting Range Field	HAF-143-1	1	<LOD	<LOD	<LOD	23715	21	373	<LOD	47
Shooting Range Field	HAF-143-1.5	1.5	<LOD	<LOD	<LOD	27634	20	596	<LOD	60
Shooting Range Field	HAF-143-2	2	<LOD	<LOD	<LOD	20068	16	366	<LOD	46
Shooting Range Field	HAF-144-0	0	<LOD	<LOD	52	22007	23	666	<LOD	59
Shooting Range Field	HAF-144-0.5	0.5	<LOD	<LOD	72	20397	18	528	<LOD	36
Shooting Range Field	HAF-144-1	1	<LOD	<LOD	30	26958	21	617	<LOD	43
Shooting Range Field	HAF-144-1.5	1.5	<LOD	<LOD	36	25991	20	651	<LOD	45
Shooting Range Field	HAF-144-2	2	<LOD	<LOD	<LOD	26301	20	681	<LOD	58
Shooting Range Field	HAF-145-0	0	8	<LOD	39	21529	17	669	<LOD	46
Shooting Range Field	HAF-145-0.5	0.5	<LOD	<LOD	<LOD	21823	14	566	<LOD	42
Shooting Range Field	HAF-145-1	1	<LOD	<LOD	<LOD	22343	13	518	<LOD	35
Shooting Range Field	HAF-145-1.5	1.5	<LOD	<LOD	<LOD	20544	20	585	<LOD	48
Shooting Range Field	HAF-145-2	2	<LOD	<LOD	<LOD	23868	24	635	<LOD	48
Shooting Range Field	HAF-146-0	0	<LOD	<LOD	79	25088	26	622	<LOD	68
Shooting Range Field	HAF-146-0 DUP	0	<LOD	<LOD	82	22833	34	580	<LOD	70
Shooting Range Field	HAF-146-0.5	0.5	<LOD	<LOD	<LOD	22439	24	619	<LOD	40
Shooting Range Field	HAF-146-1	1	<LOD	<LOD	<LOD	22411	<LOD	579	<LOD	41
Shooting Range Field	HAF-146-1.5	1.5	<LOD	<LOD	<LOD	25216	19	810	<LOD	36
Shooting Range Field	HAF-146-2	2	<LOD	<LOD	34	25038	26	824	<LOD	47
Shooting Range Field	HAF-146-0 g	0	44	<LOD	103	22563	1217	680	<LOD	76
Shooting Range Field	HAF-146-0 ng	0	45	<LOD	151	22609	724	750	<LOD	88

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-146-0.5 g	0.5	33	<LOD	124	25721	510	822	<LOD	71
Shooting Range Field	HAF-146-0.5 ng	0.5	22	<LOD	173	23822	460	847	<LOD	106
Shooting Range Field	HAF-146-1 g	1	<LOD	<LOD	64	25521	38	861	<LOD	67
Shooting Range Field	HAF-146-1 ng	1	11	<LOD	176	25589	34	801	<LOD	97
Shooting Range Field	HAF-146-1.5 g	1.5	16	<LOD	145	26832	217	919	<LOD	95
Shooting Range Field	HAF-146-1.5 ng	1.5	<LOD	<LOD	144	24732	159	857	<LOD	96
Shooting Range Field	HAF-146-2 g	2	<LOD	<LOD	114	25267	57	713	<LOD	76
Shooting Range Field	HAF-146-2 ng	2	12	<LOD	85	25064	56	768	<LOD	87
Shooting Range Field	HAF-146-2.5 g	2.5	<LOD	<LOD	130	24943	728	755	<LOD	86
Shooting Range Field	HAF-146-2.5 ng	2.5	24	<LOD	159	22870	484	764	<LOD	82
Shooting Range Field	HAF-151-0	0	<LOD	<LOD	73	21674	33	544	<LOD	69
Shooting Range Field	HAF-151-0.5	0.5	9	<LOD	125	23305	34	452	<LOD	77
Shooting Range Field	HAF-151-1	1	10	<LOD	246	24050	24	525	<LOD	115
Shooting Range Field	HAF-151-1.5	1.5	<LOD	<LOD	127.4	23579.96	25	510.64	<LOD	76.1
Shooting Range Field	HAF-151-2	2	<LOD	<LOD	50	23448	14	395	<LOD	64
Shooting Range Field	HAF-152-0	0	<LOD	<LOD	69	22757	66	555	<LOD	70
Shooting Range Field	HAF-152-0 DUP	0	<LOD	<LOD	45	24408	60	636	<LOD	71
Shooting Range Field	HAF-152-0.5	0.5	<LOD	<LOD	72	23827	40	728	<LOD	71
Shooting Range Field	HAF-152-1	1	<LOD	<LOD	28	23754	35	550	<LOD	46
Shooting Range Field	HAF-152-1.5	1.5	<LOD	<LOD	<LOD	22728	17	510	<LOD	53
Shooting Range Field	HAF-152-2	2	<LOD	<LOD	<LOD	21692	18	536	<LOD	55
Shooting Range Field	HAF-153-0	0	21	<LOD	54	23112	241	451	<LOD	59
Shooting Range Field	HAF-153-0 DUP	0	15	<LOD	75	24461	69	520	<LOD	63
Shooting Range Field	HAF-153-0.5	0.5	<LOD	<LOD	<LOD	25136	34	663	<LOD	51
Shooting Range Field	HAF-153-1	1	<LOD	<LOD	38	25969	25	528	<LOD	54
Shooting Range Field	HAF-153-1.5	1.5	<LOD	<LOD	<LOD	22880	25	523	<LOD	55
Shooting Range Field	HAF-153-2	2	<LOD	<LOD	<LOD	21852	39	496	<LOD	43
Shooting Range Field	HAF-154-0	0	31	<LOD	<LOD	27645	514	671	<LOD	62
Shooting Range Field	HAF-154-0.5	0.5	16	<LOD	62	22486	190	463	<LOD	68

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-154-1	1	<LOD	<LOD	40	23949	55	461	<LOD	60
Shooting Range Field	HAF-154-1.5	1.5	<LOD	<LOD	<LOD	24977	17	517	<LOD	66
Shooting Range Field	HAF-154-2	2	<LOD	<LOD	<LOD	23549	15	516	<LOD	59
Shooting Range Field	HAF-155-0	0	17	<LOD	34	23763	289	647	<LOD	61
Shooting Range Field	HAF-155-0 DUP	0	19	<LOD	50	24259	323	562	<LOD	69
Shooting Range Field	HAF-155-0.5	0.5	32	<LOD	35	26016	621	422	<LOD	73
Shooting Range Field	HAF-155-1	1	30	<LOD	<LOD	24182	858	533	<LOD	65
Shooting Range Field	HAF-155-1.5	1.5	<LOD	<LOD	100	23317	437	507	<LOD	81
Shooting Range Field	HAF-155-2	2	<LOD	<LOD	216	25414	38	464	<LOD	90
Shooting Range Field	HAF-156-0	0	<LOD	<LOD	48	22866	75	552	<LOD	61
Shooting Range Field	HAF-156-0.5	0.5	<LOD	<LOD	40	26810	32	608	<LOD	82
Shooting Range Field	HAF-156-1	1	<LOD	<LOD	<LOD	30100	22	708	<LOD	78
Shooting Range Field	HAF-156-1.5	1.5	<LOD	<LOD	<LOD	29174	25	664	<LOD	77
Shooting Range Field	HAF-156-2	2	<LOD	<LOD	<LOD	29064	33	613	<LOD	65
Shooting Range Field	HAF-157-0.5	0.5	<LOD	<LOD	<LOD	26010	15	572	<LOD	61
Shooting Range Field	HAF-157-1	1	<LOD	<LOD	<LOD	25231	27	525	<LOD	60
Shooting Range Field	HAF-157-1.5	1.5	<LOD	<LOD	<LOD	25466	23	572	<LOD	53
Shooting Range Field	HAF-157-2	2	<LOD	<LOD	<LOD	26835	23	657	<LOD	63
Shooting Range Field	HAF-158-0	0	13	<LOD	27	22913	137	620	<LOD	43
Shooting Range Field	HAF-158-0 DUP	0	<LOD	<LOD	37	22058	31	511	<LOD	49
Shooting Range Field	HAF-158-0.5	0.5	<LOD	<LOD	<LOD	27083	35	589	<LOD	55
Shooting Range Field	HAF-158-1	1	<LOD	<LOD	<LOD	24900	32	605	<LOD	41
Shooting Range Field	HAF-158-1.5	1.5	<LOD	<LOD	<LOD	25708	18	496	<LOD	57
Shooting Range Field	HAF-158-2	2	<LOD	<LOD	<LOD	26079	22	597	<LOD	60
Shooting Range Field	HAF-159-0	0	12	<LOD	<LOD	21642	124	380	<LOD	47
Shooting Range Field	HAF-159-0.5	0.5	<LOD	<LOD	<LOD	17706	20	553	<LOD	43
Shooting Range Field	HAF-159-1	1	<LOD	<LOD	<LOD	17629	17	365	<LOD	40
Shooting Range Field	HAF-159-1.5	1.5	<LOD	<LOD	<LOD	21275	26	707	<LOD	41
Shooting Range Field	HAF-159-2	2	<LOD	<LOD	<LOD	20541	27	827	<LOD	41

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-160-0	0	<LOD	<LOD	<LOD	17641	12	442	<LOD	34
Shooting Range Field	HAF-160-0 DUP	0	<LOD	<LOD	<LOD	18415	19	551	<LOD	23
Shooting Range Field	HAF-160-0.5	0.5	<LOD	<LOD	<LOD	20280	18	528	<LOD	40
Shooting Range Field	HAF-160-1	1	<LOD	<LOD	<LOD	20300	13	432	<LOD	48
Shooting Range Field	HAF-160-1.5	1.5	<LOD	<LOD	<LOD	21740	20	506	<LOD	49
Shooting Range Field	HAF-160-2	2	<LOD	<LOD	<LOD	24791	19	611	<LOD	34
Shooting Range Field	HAF-161-0	0	<LOD	<LOD	53	20719	25	498	<LOD	54
Shooting Range Field	HAF-161-0.5	0.5	11	<LOD	50	24702	39	643	<LOD	65
Shooting Range Field	HAF-161-1	1	<LOD	<LOD	47	27303	47	631	<LOD	98
Shooting Range Field	HAF-161-1.5	1.5	18	<LOD	36	43340	214	910	<LOD	228
Shooting Range Field	HAF-161-2	2	38	373	<LOD	84044	1793	1239	<LOD	278
Shooting Range Field	HAF-161-2.5	2.5	<LOD	<LOD	<LOD	22743	23	339	<LOD	43
Shooting Range Field	HAF-162-0	0	25	<LOD	4313	24163	680	943	<LOD	91
Shooting Range Field	HAF-162-0.5	0.5	<LOD	<LOD	<LOD	26536	26	914	<LOD	50
Shooting Range Field	HAF-162-1	1	<LOD	<LOD	<LOD	35485	40	1267	<LOD	57
Shooting Range Field	HAF-162-1.5	1.5	<LOD	<LOD	<LOD	24742	25	807	<LOD	50
Shooting Range Field	HAF-162-2	2	<LOD	<LOD	<LOD	26726	25	948	<LOD	50
Shooting Range Field	HAF-163-0	0	10	<LOD	<LOD	25670	65	486	<LOD	68
Shooting Range Field	HAF-163-0 DUP	0	14	<LOD	45	22424	30	455	<LOD	55
Shooting Range Field	HAF-163-0.5	0.5	<LOD	<LOD	34	23867	24	415	<LOD	67
Shooting Range Field	HAF-163-1	1	9	<LOD	<LOD	28503	26	563	<LOD	89
Shooting Range Field	HAF-163-1.5	1.5	10	<LOD	<LOD	26642	21	614	<LOD	99
Shooting Range Field	HAF-163-2	2	<LOD	<LOD	<LOD	30219	26	569	<LOD	88
Shooting Range Field	HAF-164-0	0	<LOD	<LOD	28	20544	18	438	<LOD	36
Shooting Range Field	HAF-164-0 DUP	0	<LOD	<LOD	72	27160	28	494	<LOD	68
Shooting Range Field	HAF-164-0.5	0.5	<LOD	<LOD	<LOD	27448	18	661	<LOD	54
Shooting Range Field	HAF-164-1	1	<LOD	<LOD	<LOD	22671	17	664	<LOD	52
Shooting Range Field	HAF-164-1.5	1.5	<LOD	<LOD	<LOD	23955	15	601	<LOD	48
Shooting Range Field	HAF-164-2	2	<LOD	<LOD	<LOD	22427	20	549	<LOD	48

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-165-0	0	<LOD	<LOD	61	24021	24	448	<LOD	56
Shooting Range Field	HAF-165-0 DUP	0	<LOD	<LOD	60	25169	33	594	<LOD	62
Shooting Range Field	HAF-165-0.5	0.5	<LOD	<LOD	<LOD	27700	20	501	<LOD	65
Shooting Range Field	HAF-165-1	1	<LOD	<LOD	<LOD	24499	21	527	<LOD	43
Shooting Range Field	HAF-165-1.5	1.5	<LOD	219	<LOD	28824	17	910	<LOD	52
Shooting Range Field	HAF-165-2	2	<LOD	<LOD	<LOD	25688	14	698	<LOD	46
Shooting Range Field	HAF-166-0	0	<LOD	<LOD	66	18739	25	474	<LOD	48
Shooting Range Field	HAF-166-0 DUP	0	<LOD	<LOD	42	25703	31	547	<LOD	75
Shooting Range Field	HAF-166-0.5	0.5	<LOD	<LOD	41	23826	24	463	<LOD	57
Shooting Range Field	HAF-166-1	1	<LOD	<LOD	<LOD	22094	17	551	<LOD	53
Shooting Range Field	HAF-166-1.5	1.5	<LOD	<LOD	<LOD	26567	23	821	<LOD	65
Shooting Range Field	HAF-166-2	2	<LOD	<LOD	38	26088	20	710	<LOD	49
Shooting Range Field	HAF-167-0	0	<LOD	<LOD	65	23242	42	468	<LOD	56
Shooting Range Field	HAF-167-0.5	0.5	<LOD	<LOD	61	22388	32	560	<LOD	43
Shooting Range Field	HAF-167-1	1	<LOD	<LOD	39	25120	13	527	<LOD	44
Shooting Range Field	HAF-167-1.5	1.5	<LOD	<LOD	<LOD	25752	19	545	<LOD	57
Shooting Range Field	HAF-167-2	2	<LOD	<LOD	<LOD	26319	25	551	<LOD	54
Shooting Range Field	HAF-172-0	0	13	<LOD	31	28029	197	753	<LOD	86
Shooting Range Field	HAF-172-0.5	0.5	18	<LOD	64	26494	366	642	<LOD	85
Shooting Range Field	HAF-172-1	1	39	<LOD	84	23361	692	604	<LOD	86
Shooting Range Field	HAF-172-1.5	1.5	39	201	79	24193	852	603	<LOD	71
Shooting Range Field	HAF-172-2	2	<LOD	<LOD	54	23321	45	551	<LOD	70
Shooting Range Field	HAF-173-0	0	<LOD	<LOD	91	21612	49	635	<LOD	70
Shooting Range Field	HAF-173-0 DUP	0	10	<LOD	72	22612	31	516	<LOD	70
Shooting Range Field	HAF-173-0.5	0.5	<LOD	<LOD	<LOD	24001	28	628	<LOD	69
Shooting Range Field	HAF-173-1	1	<LOD	<LOD	<LOD	24105	20	542	<LOD	54
Shooting Range Field	HAF-173-1.5	1.5	<LOD	<LOD	<LOD	22655	18	654	<LOD	54
Shooting Range Field	HAF-173-2	2	9	<LOD	<LOD	21565	19	552	<LOD	58
Shooting Range Field	HAF-174-0	0	64	<LOD	64	21000	715	487	<LOD	82

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-174-0.5	0.5	<LOD	<LOD	61	23858	51	646	<LOD	59
Shooting Range Field	HAF-174-1	1	<LOD	<LOD	<LOD	24445	22	557	<LOD	62
Shooting Range Field	HAF-174-1.5	1.5	<LOD	<LOD	<LOD	23823	27	593	<LOD	62
Shooting Range Field	HAF-174-2	2	9	<LOD	36	20601	<LOD	433	<LOD	72
Shooting Range Field	HAF-175-0	0	<LOD	<LOD	<LOD	23990	362	607	<LOD	62
Shooting Range Field	HAF-175-0 DUP	0	<LOD	<LOD	<LOD	24120	539	551	<LOD	61
Shooting Range Field	HAF-175-0.5	0.5	81	<LOD	75	23189	1335	741	<LOD	68
Shooting Range Field	HAF-175-1	1	17	<LOD	50	24571	200	557	<LOD	64
Shooting Range Field	HAF-175-1.5	1.5	<LOD	<LOD	33	25534	34	539	<LOD	58
Shooting Range Field	HAF-175-2	2	<LOD	<LOD	47	25923	19	608	<LOD	57
Shooting Range Field	HAF-176-0	0	28	<LOD	32	23814	477	678	<LOD	75
Shooting Range Field	HAF-176-0 DUP	0	27	<LOD	56	23440	704	549	<LOD	77
Shooting Range Field	HAF-176-0.5	0.5	16	<LOD	59	24656	89	598	<LOD	66
Shooting Range Field	HAF-176-1	1	<LOD	<LOD	35	26533	30	494	<LOD	62
Shooting Range Field	HAF-176-1.5	1.5	12	<LOD	33	26440	20	571	<LOD	75
Shooting Range Field	HAF-176-2	2	<LOD	<LOD	<LOD	25274	26	512	<LOD	70
Shooting Range Field	HAF-177-0	0	19	<LOD	53	24231	448	559	<LOD	76
Shooting Range Field	HAF-177-0.5	0.5	<LOD	<LOD	33	25473	261	658	<LOD	82
Shooting Range Field	HAF-177-1	1	<LOD	<LOD	<LOD	26729	54	510	<LOD	78
Shooting Range Field	HAF-177-1.5	1.5	<LOD	<LOD	30	25442	23	582	<LOD	69
Shooting Range Field	HAF-177-2	2	<LOD	<LOD	29	24870	21	571	<LOD	69
Shooting Range Field	HAF-178-0	0	39	<LOD	63	24194	673	508	<LOD	85
Shooting Range Field	HAF-178-0.5	0.5	11	<LOD	98	25497	53	597	<LOD	76
Shooting Range Field	HAF-178-1	1	14	<LOD	<LOD	26604	18	392	<LOD	55
Shooting Range Field	HAF-178-2	2	<LOD	<LOD	53	23963	18	394	<LOD	62
Shooting Range Field	HAF-179-0	0	54	<LOD	52	25204	728	573	<LOD	60
Shooting Range Field	HAF-179-0 DUP	0	69	<LOD	79	26017	1320	684	<LOD	86
Shooting Range Field	HAF-179-0.5	0.5	31	<LOD	66	27042	266	587	<LOD	56
Shooting Range Field	HAF-179-1	1	9	<LOD	<LOD	27513	30	530	<LOD	58

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-179-1.5	1.5	<LOD	<LOD	<LOD	23237	22	490	<LOD	53
Shooting Range Field	HAF-179-2	2	<LOD	<LOD	<LOD	26980	21	445	<LOD	66
Shooting Range Field	HAF-180-0	0	45	<LOD	109	22534	807	516	<LOD	84
Shooting Range Field	HAF-180-0.5	0.5	<LOD	<LOD	119	27154	55	585	<LOD	78
Shooting Range Field	HAF-180-1	1	<LOD	<LOD	383	26555	22	546	<LOD	148
Shooting Range Field	HAF-180-1.5	1.5	<LOD	<LOD	417	25231	21	468	<LOD	160
Shooting Range Field	HAF-180-2	2	<LOD	<LOD	131	23365	15	443	<LOD	79
Shooting Range Field	HAF-181-0	0	<LOD	367	67	23714	317	1000	<LOD	66
Shooting Range Field	HAF-181-0 DUP	0	26	<LOD	96	24817	302	593	<LOD	72
Shooting Range Field	HAF-181-0.5	0.5	<LOD	<LOD	118	24827	54	669	<LOD	88
Shooting Range Field	HAF-181-1	1	<LOD	<LOD	79	27095	42	600	<LOD	51
Shooting Range Field	HAF-181-1.5	1.5	<LOD	<LOD	39	26774	27	629	<LOD	53
Shooting Range Field	HAF-181-2	2	<LOD	<LOD	<LOD	26183	32	658	<LOD	67
Shooting Range Field	HAF-182-0	0	34	<LOD	91	25360	485	565	<LOD	90
Shooting Range Field	HAF-182-0 DUP	0	15	<LOD	122	26607	152	558	<LOD	91
Shooting Range Field	HAF-182-0.5	0.5	16	<LOD	68	25835	132	742	<LOD	85
Shooting Range Field	HAF-182-1	1	<LOD	<LOD	<LOD	25570	23	554	<LOD	62
Shooting Range Field	HAF-182-1.5	1.5	<LOD	<LOD	31	25088	20	545	<LOD	63
Shooting Range Field	HAF-182-2	2	<LOD	<LOD	<LOD	24827	19	618	<LOD	59
Shooting Range Field	HAF-183-0	0	45	<LOD	136	27182	825	760	<LOD	108
Shooting Range Field	HAF-183-0.5	0.5	22	<LOD	78	27723	253	614	<LOD	66
Shooting Range Field	HAF-183-1	1	<LOD	<LOD	<LOD	27918	55	575	<LOD	70
Shooting Range Field	HAF-183-1.5	1.5	<LOD	<LOD	<LOD	24854	17	581	<LOD	54
Shooting Range Field	HAF-183-2	2	<LOD	<LOD	35	24780	16	397	<LOD	39
Shooting Range Field	HAF-184-0	0	19	<LOD	105	26420	276	645	<LOD	75
Shooting Range Field	HAF-184-0.5	0.5	<LOD	<LOD	50	27195	43	465	<LOD	86
Shooting Range Field	HAF-184-1	1	<LOD	<LOD	68	27721	<LOD	466	<LOD	76
Shooting Range Field	HAF-184-1.5	1.5	<LOD	<LOD	116	28319	23	513	<LOD	80
Shooting Range Field	HAF-184-2	2	<LOD	<LOD	196	27579	16	547	<LOD	118

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-185-0	0	<LOD	<LOD	71	27005	70	461	<LOD	59
Shooting Range Field	HAF-185-0.5	0.5	<LOD	<LOD	<LOD	25879	14	468	<LOD	52
Shooting Range Field	HAF-185-1	1	<LOD	<LOD	<LOD	28739	20	553	<LOD	58
Shooting Range Field	HAF-185-1.5	1.5	<LOD	<LOD	<LOD	25729	17	487	<LOD	53
Shooting Range Field	HAF-185-2	2	<LOD	<LOD	<LOD	27701	25	570	<LOD	58
Shooting Range Field	HAF-186-0	0	<LOD	<LOD	70	20074	44	654	<LOD	40
Shooting Range Field	HAF-186-0.5	0.5	<LOD	<LOD	61	19042	16	529	<LOD	43
Shooting Range Field	HAF-186-1	1	<LOD	<LOD	50	22652	26	610	<LOD	55
Shooting Range Field	HAF-186-1.5	1.5	<LOD	<LOD	<LOD	23414	16	776	<LOD	36
Shooting Range Field	HAF-186-2	2	<LOD	<LOD	<LOD	23909	24	624	<LOD	41
Shooting Range Field	HAF-187-0	0	<LOD	<LOD	<LOD	21859	17	449	<LOD	57
Shooting Range Field	HAF-187-0.5	0.5	<LOD	<LOD	46	19185	26	545	<LOD	47
Shooting Range Field	HAF-187-1	1	<LOD	<LOD	<LOD	26074	21	595	<LOD	40
Shooting Range Field	HAF-187-1.5	1.5	<LOD	263	<LOD	23005	20	489	<LOD	45
Shooting Range Field	HAF-187-2	2	<LOD	<LOD	35	23541	15	641	<LOD	42
Shooting Range Field	HAF-188-0	0	<LOD	<LOD	50	23574	39	465	<LOD	56
Shooting Range Field	HAF-188-0 DUP	0	<LOD	<LOD	59	22371	47	535	<LOD	63
Shooting Range Field	HAF-188-0.5	0.5	11	<LOD	<LOD	23581	21	570	<LOD	46
Shooting Range Field	HAF-188-1	1	<LOD	<LOD	48	24763	17	467	<LOD	45
Shooting Range Field	HAF-188-1.5	1.5	<LOD	<LOD	<LOD	26953	21	556	<LOD	52
Shooting Range Field	HAF-188-2	2	<LOD	<LOD	34	23807	25	474	<LOD	51
Shooting Range Field	HAF-193-0	0	<LOD	<LOD	71	18178	41	408	<LOD	59
Shooting Range Field	HAF-193-0 DUP	0	<LOD	<LOD	60	22986	45	556	<LOD	69
Shooting Range Field	HAF-193-0.5	0.5	<LOD	<LOD	72	21406	28	464	<LOD	57
Shooting Range Field	HAF-193-1	1	<LOD	<LOD	<LOD	21313	23	440	<LOD	56
Shooting Range Field	HAF-193-1.5	1.5	8	<LOD	<LOD	20809	16	510	<LOD	39
Shooting Range Field	HAF-193-2	2	<LOD	<LOD	30	21033	23	434	<LOD	39
Shooting Range Field	HAF-194-0	0	<LOD	<LOD	29	22314	49	415	<LOD	72
Shooting Range Field	HAF-194-0.5	0.5	<LOD	<LOD	90	26121	56	569	<LOD	74

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-194-1	1	<LOD	<LOD	131	23859	29	609	<LOD	80
Shooting Range Field	HAF-194-1.5	1.5	<LOD	<LOD	182	25493	20	510	<LOD	105
Shooting Range Field	HAF-194-2	2	9	<LOD	125	24282	22	494	<LOD	82
Shooting Range Field	HAF-195-0	0	<LOD	<LOD	27	16188	93	379	<LOD	59
Shooting Range Field	HAF-195-0 DUP	0	10	<LOD	130	22311	65	509	<LOD	95
Shooting Range Field	HAF-195-0.5	0.5	11	<LOD	158	23105	42	592	<LOD	92
Shooting Range Field	HAF-195-1	1	<LOD	<LOD	146	24218	35	722	<LOD	100
Shooting Range Field	HAF-195-1.5	1.5	<LOD	<LOD	167	23598	32	809	<LOD	94
Shooting Range Field	HAF-195-2	2	<LOD	<LOD	75	23480	33	732	<LOD	68
Shooting Range Field	HAF-196-0	0	<LOD	<LOD	149	23548	91	507	<LOD	80
Shooting Range Field	HAF-196-0.5	0.5	<LOD	<LOD	497	24309	46	466	<LOD	166
Shooting Range Field	HAF-196-1	1	11	<LOD	88	25776	18	568	<LOD	80
Shooting Range Field	HAF-196-1.5	1.5	<LOD	<LOD	186	25644	21	477	<LOD	84
Shooting Range Field	HAF-196-2	2	<LOD	<LOD	102	22797	22	501	<LOD	74
Shooting Range Field	HAF-197-0	0	54	<LOD	130	18834	637	610	<LOD	105
Shooting Range Field	HAF-197-0 DUP	0	22	<LOD	145	23674	446	703	<LOD	85
Shooting Range Field	HAF-197-0.5	0.5	<LOD	<LOD	114	24336	72	590	<LOD	104
Shooting Range Field	HAF-197-1	1	11	<LOD	145	25886	39	769	<LOD	102
Shooting Range Field	HAF-197-1.5	1.5	<LOD	<LOD	183	26361	28	521	<LOD	101
Shooting Range Field	HAF-197-2	2	14	<LOD	52	23878	102	538	<LOD	67
Shooting Range Field	HAF-197-2.5	2.5	<LOD	<LOD	<LOD	26732	65	585	<LOD	69
Shooting Range Field	HAF-198-0	0	<LOD	<LOD	38	23512	138	431	<LOD	94
Shooting Range Field	HAF-198-0.75	0.75	<LOD	<LOD	67	22447	192	637	<LOD	74
Shooting Range Field	HAF-198-1	1	<LOD	<LOD	283	25300	24	495	<LOD	107
Shooting Range Field	HAF-198-1.5	1.5	<LOD	<LOD	337	26382	23	518	<LOD	148
Shooting Range Field	HAF-198-2	2	<LOD	<LOD	358	25985	18	512	<LOD	142
Shooting Range Field	HAF-199-0	0	19	<LOD	49	22329	340	680	<LOD	62
Shooting Range Field	HAF-199-0 DUP	0	<LOD	<LOD	61	22820	250	735	<LOD	67
Shooting Range Field	HAF-199-0.5	0.5	98	<LOD	96	24524	1717	704	<LOD	70

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-199-1	1	10	<LOD	160	23564	67	797	<LOD	87
Shooting Range Field	HAF-199-1.5	1.5	<LOD	<LOD	103	26422	32	843	<LOD	88
Shooting Range Field	HAF-199-2	2	<LOD	<LOD	64	25804	23	691	<LOD	70
Shooting Range Field	HAF-200-0 DUP	0	22	<LOD	113	24424	512	572	<LOD	82
Shooting Range Field	HAF-200-0.5	0.5	14	<LOD	73	25786	243	747	<LOD	89
Shooting Range Field	HAF-200-1	1	10	<LOD	54	25833	38	631	<LOD	70
Shooting Range Field	HAF-200-1.5	1.5	<LOD	<LOD	37	25846	26	454	<LOD	56
Shooting Range Field	HAF-200-2	2	<LOD	<LOD	88	25522	20	490	<LOD	94
Shooting Range Field	HAF-201-0.5	0.5	16	<LOD	79	23689	112	579	<LOD	73
Shooting Range Field	HAF-201-1	1	<LOD	<LOD	49	25175	99	576	<LOD	73
Shooting Range Field	HAF-201-1.5	1.5	<LOD	<LOD	36	25275	38	601	<LOD	56
Shooting Range Field	HAF-201-2	2	<LOD	<LOD	<LOD	25744	19	584	<LOD	70
Shooting Range Field	HAF-202-0	0	32	<LOD	<LOD	24603	589	527	<LOD	74
Shooting Range Field	HAF-202-0 DUP	0	27	<LOD	45	24404	557	539	<LOD	58
Shooting Range Field	HAF-202-0.5	0.5	36	<LOD	75	24088	697	532	<LOD	93
Shooting Range Field	HAF-202-1	1	16	<LOD	71	24944	151	526	<LOD	79
Shooting Range Field	HAF-202-1.5	1.5	<LOD	<LOD	<LOD	26758	90	588	<LOD	73
Shooting Range Field	HAF-202-2	2	<LOD	<LOD	<LOD	25845	25	456	<LOD	67
Shooting Range Field	HAF-203-0	0	39	<LOD	93	25015	854	540	<LOD	79
Shooting Range Field	HAF-203-0 DUP	0	42	<LOD	100	26300	653	532	<LOD	88
Shooting Range Field	HAF-203-0.5	0.5	14	<LOD	114	26490	48	556	<LOD	70
Shooting Range Field	HAF-203-1	1	<LOD	<LOD	74	27813	34	611	<LOD	100
Shooting Range Field	HAF-203-1.5	1.5	<LOD	<LOD	61	27323	24	508	<LOD	72
Shooting Range Field	HAF-203-2	2	9	<LOD	44	25997	22	641	<LOD	71
Shooting Range Field	HAF-204-0	0	<LOD	<LOD	75	28149	1223	616	<LOD	78
Shooting Range Field	HAF-204-0.5	0.5	<LOD	<LOD	81	26087	179	501	<LOD	84
Shooting Range Field	HAF-204-1	1	<LOD	<LOD	65	28967	64	730	<LOD	73
Shooting Range Field	HAF-204-1.5	1.5	<LOD	<LOD	56	27555	60	554	<LOD	73
Shooting Range Field	HAF-204-2	2	<LOD	<LOD	<LOD	29373	45	565	<LOD	70

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-205-0	0	26	<LOD	71	25874	543	643	<LOD	55
Shooting Range Field	HAF-205-0 DUP	0	<LOD	<LOD	84	25518	558	618	<LOD	73
Shooting Range Field	HAF-205-0.5	0.5	12	<LOD	64	26197	54	609	<LOD	71
Shooting Range Field	HAF-205-1	1	<LOD	<LOD	<LOD	28438	23	635	<LOD	67
Shooting Range Field	HAF-205-1.5	1.5	<LOD	<LOD	<LOD	28591	21	637	<LOD	61
Shooting Range Field	HAF-205-2	2	<LOD	<LOD	<LOD	28176	19	539	<LOD	67
Shooting Range Field	HAF-206-0	0	18	<LOD	89	19641	234	478	<LOD	52
Shooting Range Field	HAF-206-0 DUP	0	<LOD	<LOD	76	23279	383	500	<LOD	71
Shooting Range Field	HAF-206-0.5	0.5	<LOD	<LOD	84	18838	28	397	<LOD	33
Shooting Range Field	HAF-206-1	1	12	<LOD	29	18827	<LOD	552	<LOD	34
Shooting Range Field	HAF-206-1.5	1.5	<LOD	<LOD	<LOD	22303	26	853	<LOD	41
Shooting Range Field	HAF-206-2	2	<LOD	201	<LOD	25790	39	659	<LOD	53
Shooting Range Field	HAF-207-0	0	<LOD	<LOD	60	19417	78	461	<LOD	45
Shooting Range Field	HAF-207-0 DUP	0	15	<LOD	65	22389	144	549	<LOD	64
Shooting Range Field	HAF-207-0.5	0.5	9	<LOD	46	19158	28	462	<LOD	39
Shooting Range Field	HAF-207-1	1	<LOD	<LOD	<LOD	19919	14	532	<LOD	33
Shooting Range Field	HAF-207-1.5	1.5	<LOD	<LOD	<LOD	23187	18	583	<LOD	54
Shooting Range Field	HAF-207-2	2	<LOD	<LOD	47	25103	95	554	<LOD	47
Shooting Range Field	HAF-207-2.5	2.5	<LOD	<LOD	<LOD	26864	22	532	<LOD	46
Shooting Range Field	HAF-208-0	0	<LOD	<LOD	61	19952	33	500	<LOD	48
Shooting Range Field	HAF-208-0 DUP	0	<LOD	<LOD	72	22385	52	539	<LOD	61
Shooting Range Field	HAF-208-0.5	0.5	<LOD	<LOD	50	17975	27	425	<LOD	44
Shooting Range Field	HAF-208-1	1	<LOD	<LOD	<LOD	19501	25	439	<LOD	37
Shooting Range Field	HAF-208-1.5	1.5	<LOD	<LOD	<LOD	24538	24	517	<LOD	50
Shooting Range Field	HAF-208-2	2	<LOD	<LOD	<LOD	23140	32	444	<LOD	54
Shooting Range Field	HAF-209-0	0	<LOD	<LOD	76	19976	31	512	<LOD	58
Shooting Range Field	HAF-209-0.5	0.5	<LOD	<LOD	41	18001	21	530	<LOD	42
Shooting Range Field	HAF-209-1	1	<LOD	<LOD	<LOD	21131	17	542	<LOD	40
Shooting Range Field	HAF-209-1.5	1.5	<LOD	<LOD	47	21160	23	507	<LOD	50

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-209-2	2	<LOD	<LOD	34	22866	32	612	<LOD	48
Shooting Range Field	HAF-215-0	0	<LOD	<LOD	64	23716	41	563	<LOD	75
Shooting Range Field	HAF-215-0 DUP	0	<LOD	<LOD	56	25793	45	558	<LOD	46
Shooting Range Field	HAF-215-0.5	0.5	10	<LOD	<LOD	32517	<LOD	665	<LOD	46
Shooting Range Field	HAF-215-1	1	<LOD	<LOD	<LOD	31301	15	636	<LOD	49
Shooting Range Field	HAF-215-1.5	1.5	<LOD	<LOD	<LOD	21901	<LOD	511	<LOD	<LOD
Shooting Range Field	HAF-215-2	2	<LOD	<LOD	75	22662	30	687	<LOD	42
Shooting Range Field	HAF-216-0	0	13	<LOD	34	19562	101	496	<LOD	65
Shooting Range Field	HAF-216-0 DUP	0	<LOD	<LOD	31	20633	<LOD	655	<LOD	31
Shooting Range Field	HAF-216-0.5	0.5	<LOD	<LOD	<LOD	21006	<LOD	577	<LOD	39
Shooting Range Field	HAF-216-1	1	<LOD	<LOD	<LOD	24391	13	704	<LOD	38
Shooting Range Field	HAF-216-1.5	1.5	<LOD	<LOD	<LOD	28441	<LOD	881	<LOD	46
Shooting Range Field	HAF-216-2	2	<LOD	<LOD	<LOD	26568	13	783	<LOD	58
Shooting Range Field	HAF-217-0	0	<LOD	<LOD	29	16834	288	398	<LOD	84
Shooting Range Field	HAF-217-0 DUP	0	<LOD	<LOD	89	25195	87	553	<LOD	86
Shooting Range Field	HAF-217-0.5	0.5	<LOD	<LOD	70	26705	36	507	<LOD	73
Shooting Range Field	HAF-217-1	1	<LOD	<LOD	85	24259	36	587	<LOD	91
Shooting Range Field	HAF-217-1.5	1.5	<LOD	<LOD	72	22359	23	518	<LOD	51
Shooting Range Field	HAF-217-2	2	<LOD	<LOD	56	23965	53	514	<LOD	64
Shooting Range Field	HAF-218-0	0	15	<LOD	64	20689	69	626	<LOD	75
Shooting Range Field	HAF-218-0.5	0.5	<LOD	<LOD	97	23353	61	641	<LOD	67
Shooting Range Field	HAF-218-1	1	<LOD	<LOD	56	21709	287	666	<LOD	62
Shooting Range Field	HAF-218-1.5	1.5	<LOD	<LOD	93	23173	52	751	<LOD	79
Shooting Range Field	HAF-218-2	2	<LOD	<LOD	86	22113	64	846	<LOD	73
Shooting Range Field	HAF-218-2.5	2.5	<LOD	<LOD	29	21844	27	489	<LOD	51
Shooting Range Field	HAF-219-0	0	<LOD	<LOD	63	20019	222	371	<LOD	59
Shooting Range Field	HAF-219-0.5	0.5	<LOD	<LOD	66	23849	39	543	<LOD	81
Shooting Range Field	HAF-219-1	1	<LOD	<LOD	<LOD	25511	22	641	<LOD	65
Shooting Range Field	HAF-219-1.5	1.5	<LOD	<LOD	32	23865	21	615	<LOD	65

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-219-2	2	<LOD	<LOD	<LOD	24236	24	579	<LOD	83
Shooting Range Field	HAF-220-0	0	<LOD	<LOD	80	21351	108	645	<LOD	71
Shooting Range Field	HAF-220-0 DUP	0	<LOD	<LOD	121	24935	49	733	<LOD	59
Shooting Range Field	HAF-220-0.5	0.5	11	<LOD	81	26179	30	824	<LOD	80
Shooting Range Field	HAF-220-1	1	10	<LOD	35	26659	<LOD	747	<LOD	70
Shooting Range Field	HAF-220-1.5	1.5	<LOD	<LOD	87	27223	19	835	<LOD	85
Shooting Range Field	HAF-220-2	2	<LOD	<LOD	41	25964	16	782	<LOD	64
Shooting Range Field	HAF-221-0	0	13	<LOD	80	22911	141	634	<LOD	67
Shooting Range Field	HAF-221-0.5	0.5	<LOD	<LOD	88	24911	70	653	<LOD	70
Shooting Range Field	HAF-221-1	1	10	<LOD	154	28338	30	767	<LOD	87
Shooting Range Field	HAF-221-1.5	1.5	<LOD	<LOD	206	28104	29	773	<LOD	96
Shooting Range Field	HAF-221-2	2	<LOD	<LOD	130	27399	50	779	<LOD	83
Shooting Range Field	HAF-222-0	0	18	<LOD	92	22021	249	648	<LOD	71
Shooting Range Field	HAF-222-0 DUP	0	<LOD	<LOD	112	22931	303	602	<LOD	85
Shooting Range Field	HAF-222-0.5	0.5	<LOD	<LOD	124	24138	64	648	<LOD	92
Shooting Range Field	HAF-222-1	1	<LOD	<LOD	138	25954	133	789	<LOD	75
Shooting Range Field	HAF-222-1.5	1.5	<LOD	<LOD	63	25883	27	672	<LOD	69
Shooting Range Field	HAF-222-2	2	<LOD	<LOD	56	25548	28	743	<LOD	59
Shooting Range Field	HAF-223-0	0	<LOD	<LOD	123	24601	470	562	<LOD	81
Shooting Range Field	HAF-223-0 DUP	0	28	<LOD	99	22941	422	492	<LOD	61
Shooting Range Field	HAF-223-0.5	0.5	<LOD	<LOD	96	23822	378	567	<LOD	92
Shooting Range Field	HAF-223-1	1	<LOD	<LOD	114	24902	80	877	<LOD	61
Shooting Range Field	HAF-223-1.5	1.5	<LOD	<LOD	65	25978	65	634	<LOD	70
Shooting Range Field	HAF-223-2	2	<LOD	<LOD	46	26029	62	531	<LOD	61
Shooting Range Field	HAF-223-2.5	2.5	17	<LOD	65	25115	264	595	<LOD	70
Shooting Range Field	HAF-224-0	0	42	<LOD	70	24425	589	593	<LOD	64
Shooting Range Field	HAF-224-0.5	0.5	33	<LOD	112	24662	528	620	<LOD	57
Shooting Range Field	HAF-224-1	1	<LOD	<LOD	79	25977	65	596	<LOD	70
Shooting Range Field	HAF-224-1.5	1.5	<LOD	<LOD	46	26731	27	564	<LOD	61

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-224-2	2	14	<LOD	42	27617	72	578	<LOD	64
Shooting Range Field	HAF-225-0	0	49	<LOD	74	24129	959	559	<LOD	89
Shooting Range Field	HAF-225-0.5	0.5	24	<LOD	135	25932	422	684	<LOD	82
Shooting Range Field	HAF-225-1	1	26	<LOD	192	25217	659	558	<LOD	95
Shooting Range Field	HAF-225-1.5	1.5	11	<LOD	80	26360	67	816	<LOD	83
Shooting Range Field	HAF-225-2	2	36	<LOD	138	25775	395	696	<LOD	90
Shooting Range Field	HAF-225-2.5	2.5	36	<LOD	54	26500	581	561	<LOD	69
Shooting Range Field	HAF-226-0	0	46	<LOD	108	24551	889	697	<LOD	81
Shooting Range Field	HAF-226-0 DUP	0	30	<LOD	60	25268	611	753	<LOD	57
Shooting Range Field	HAF-226-0.5	0.5	26	<LOD	86	23095	465	773	<LOD	60
Shooting Range Field	HAF-226-1	1	18	<LOD	469	25015	203	855	<LOD	154
Shooting Range Field	HAF-226-1.5	1.5	<LOD	<LOD	253	30750	174	935	<LOD	141
Shooting Range Field	HAF-226-2	2	<LOD	<LOD	353	25326	85	873	<LOD	127
Shooting Range Field	HAF-226-2.5	2.5	22	<LOD	37	25893	507	444	<LOD	66
Shooting Range Field	HAF-227-0	0	52	<LOD	52	22728	1179	502	<LOD	66
Shooting Range Field	HAF-227-0.75	0.75	60	<LOD	<LOD	24831	449	501	<LOD	60
Shooting Range Field	HAF-227-1	1	12	<LOD	38	22055	17	404	<LOD	50
Shooting Range Field	HAF-227-1.5	1.5	<LOD	<LOD	<LOD	20718	65	377	<LOD	49
Shooting Range Field	HAF-227-2	2	<LOD	<LOD	<LOD	25927	28	495	<LOD	52
Shooting Range Field	HAF-228-0	0	<LOD	<LOD	45	22300	107	419	<LOD	58
Shooting Range Field	HAF-228-0.5	0.5	<LOD	<LOD	<LOD	23732	18	415	<LOD	49
Shooting Range Field	HAF-228-1	1	<LOD	<LOD	<LOD	28137	23	416	<LOD	58
Shooting Range Field	HAF-228-1.5	1.5	<LOD	<LOD	<LOD	28357	34	437	<LOD	51
Shooting Range Field	HAF-228-2	2	12	<LOD	<LOD	30906	104	549	<LOD	61
Shooting Range Field	HAF-228-2.5	2.5	9	<LOD	<LOD	24334	26	554	<LOD	51
Shooting Range Field	HAF-229-0	0	<LOD	<LOD	<LOD	23047	22	499	<LOD	41
Shooting Range Field	HAF-229-0.5	0.5	28	<LOD	73	20253	371	488	<LOD	45
Shooting Range Field	HAF-229-1	1	<LOD	<LOD	<LOD	22835	22	541	<LOD	31
Shooting Range Field	HAF-229-1.5	1.5	<LOD	<LOD	<LOD	26335	14	497	<LOD	61

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-229-2	2	<LOD	<LOD	41	24512	54	465	<LOD	55
Shooting Range Field	HAF-229-2.5	2.5	<LOD	<LOD	<LOD	23181	32	528	<LOD	58
Shooting Range Field	HAF-230-0	0	10	<LOD	68	20076	47	451	<LOD	45
Shooting Range Field	HAF-230-0 DUP	0	<LOD	<LOD	83	20247	78	579	<LOD	72
Shooting Range Field	HAF-230-0.5	0.5	<LOD	<LOD	51	24963	28	621	<LOD	55
Shooting Range Field	HAF-230-1	1	<LOD	<LOD	<LOD	24201	27	508	<LOD	39
Shooting Range Field	HAF-230-1.5	1.5	<LOD	<LOD	<LOD	26668	23	583	<LOD	51
Shooting Range Field	HAF-230-2	2	<LOD	<LOD	35	23850	41	439	<LOD	54
Shooting Range Field	HAF-238-0	0	9	<LOD	31	18718	28	500	<LOD	100
Shooting Range Field	HAF-238-0.5	0.5	<LOD	<LOD	<LOD	21655	<LOD	577	<LOD	41
Shooting Range Field	HAF-238-1	1	<LOD	<LOD	<LOD	24033	<LOD	570	<LOD	33
Shooting Range Field	HAF-238-1.5	1.5	<LOD	<LOD	<LOD	23404	<LOD	712	<LOD	29
Shooting Range Field	HAF-238-2	2	<LOD	<LOD	<LOD	22042	<LOD	641	<LOD	34
Shooting Range Field	HAF-239-0	0	9	<LOD	50	15932	48	358	<LOD	40
Shooting Range Field	HAF-239-0.5	0.5	<LOD	<LOD	36	18225	34	538	<LOD	51
Shooting Range Field	HAF-239-1	1	<LOD	<LOD	29	19402	<LOD	438	<LOD	23
Shooting Range Field	HAF-239-1.5	1.5	<LOD	<LOD	<LOD	23437	13	643	<LOD	32
Shooting Range Field	HAF-239-2	2	<LOD	282	<LOD	26518	29	541	<LOD	49
Shooting Range Field	HAF-240-0	0	<LOD	<LOD	51	19683	696	476	<LOD	58
Shooting Range Field	HAF-240-0 DUP	0	10	<LOD	52	23582	54	499	<LOD	61
Shooting Range Field	HAF-240-0.5	0.5	<LOD	<LOD	<LOD	22351	26	610	<LOD	43
Shooting Range Field	HAF-240-1	1	<LOD	<LOD	42	23599	25	675	<LOD	49
Shooting Range Field	HAF-240-1.5	1.5	<LOD	215	57	23417	39	670	<LOD	53
Shooting Range Field	HAF-240-2	2	<LOD	<LOD	<LOD	24138	23	630	<LOD	57
Shooting Range Field	HAF-241-0	0	17	<LOD	146	15042	208	292	<LOD	112
Shooting Range Field	HAF-241-0.5	0.5	<LOD	<LOD	45	11476	178	410	<LOD	63
Shooting Range Field	HAF-241-1	1	47	<LOD	68	18246	545	634	<LOD	65
Shooting Range Field	HAF-241-1.5	1.5	14	<LOD	388	23227	36	687	<LOD	135
Shooting Range Field	HAF-241-2	2	<LOD	<LOD	166	17698	113	630	<LOD	93

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-241-2.5	2.5	13	<LOD	<LOD	23763	21	535	<LOD	46
Shooting Range Field	HAF-242-0	0	17	<LOD	105	29305	122	730	<LOD	101
Shooting Range Field	HAF-242-0 DUP	0	<LOD	<LOD	190	23591	163	530	<LOD	93
Shooting Range Field	HAF-242-0.5	0.5	10	<LOD	206	23743	47	610	<LOD	94
Shooting Range Field	HAF-242-1	1	<LOD	<LOD	129	28143	31	563	<LOD	76
Shooting Range Field	HAF-242-1.5	1.5	<LOD	<LOD	51	25925	21	542	<LOD	72
Shooting Range Field	HAF-242-2	2	<LOD	<LOD	36	26572	<LOD	521	<LOD	65
Shooting Range Field	HAF-243-0	0	<LOD	<LOD	117	20745	96	676	<LOD	69
Shooting Range Field	HAF-243-0.5	0.5	<LOD	<LOD	90	24690	35	778	<LOD	86
Shooting Range Field	HAF-243-1	1	<LOD	<LOD	147	25377	21	720	<LOD	81
Shooting Range Field	HAF-243-1.5	1.5	<LOD	<LOD	61	24578	18	790	<LOD	74
Shooting Range Field	HAF-243-2	2	<LOD	<LOD	90	24453	25	601	<LOD	74
Shooting Range Field	HAF-244-0	0	17	<LOD	148	26609	281	611	<LOD	77
Shooting Range Field	HAF-244-0.5	0.5	<LOD	<LOD	115	23275	60	700	<LOD	73
Shooting Range Field	HAF-244-1	1	<LOD	<LOD	48	25767	27	614	<LOD	75
Shooting Range Field	HAF-244-1.5	1.5	8	<LOD	34	24623	15	466	<LOD	65
Shooting Range Field	HAF-244-2	2	<LOD	<LOD	35	24168	32	429	<LOD	65
Shooting Range Field	HAF-245-0	0	21	<LOD	102	22781	473	609	<LOD	79
Shooting Range Field	HAF-245-0 DUP	0	<LOD	<LOD	145	23264	658	669	<LOD	85
Shooting Range Field	HAF-245-0.5	0.5	<LOD	<LOD	134	24288	473	713	<LOD	90
Shooting Range Field	HAF-245-1	1	<LOD	<LOD	146	24646	69	754	<LOD	96
Shooting Range Field	HAF-245-1.5	1.5	<LOD	<LOD	72	25439	29	751	<LOD	68
Shooting Range Field	HAF-245-2	2	9	<LOD	<LOD	24135	32	690	<LOD	67
Shooting Range Field	HAF-246-0	0	33	<LOD	144	24417	592	710	<LOD	86
Shooting Range Field	HAF-246-0 DUP	0	<LOD	<LOD	279	25304	122	512	<LOD	103
Shooting Range Field	HAF-246-0.5	0.5	<LOD	<LOD	173	26182	138	585	<LOD	92
Shooting Range Field	HAF-246-1	1	<LOD	<LOD	148	26199	46	557	<LOD	78
Shooting Range Field	HAF-246-1.5	1.5	<LOD	<LOD	199	25077	34	499	<LOD	82
Shooting Range Field	HAF-246-2	2	<LOD	<LOD	252	25065	118	499	<LOD	117

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-246-2.5	2.5	37	<LOD	54	24668	909	580	<LOD	83
Shooting Range Field	HAF-247-0	0	34	<LOD	62	28243	647	769	<LOD	81
Shooting Range Field	HAF-247-0.5	0.5	18	<LOD	86	23815	431	679	<LOD	68
Shooting Range Field	HAF-247-1	1	<LOD	<LOD	109	23278	45	484	<LOD	51
Shooting Range Field	HAF-247-1.5	1.5	<LOD	<LOD	659	26545	110	627	<LOD	207
Shooting Range Field	HAF-247-2	2	16	<LOD	67	25983	142	542	<LOD	71
Shooting Range Field	HAF-247-2.5	2.5	27	<LOD	<LOD	27476	392	590	<LOD	70
Shooting Range Field	HAF-248-0	0	29	<LOD	50	20110	379	487	<LOD	58
Shooting Range Field	HAF-248-0 DUP	0	16	<LOD	58	23899	290	423	<LOD	72
Shooting Range Field	HAF-248-0.5	0.5	<LOD	<LOD	<LOD	21083	36	356	<LOD	51
Shooting Range Field	HAF-248-1	1	9	<LOD	<LOD	24721	22	536	<LOD	46
Shooting Range Field	HAF-248-1.5	1.5	<LOD	<LOD	<LOD	26225	57	637	<LOD	61
Shooting Range Field	HAF-248-2	2	<LOD	<LOD	<LOD	26533	56	618	<LOD	46
Shooting Range Field	HAF-249-0	0	11	<LOD	74	21717	101	472	<LOD	53
Shooting Range Field	HAF-249-0 DUP	0	17	<LOD	70	24232	109	545	<LOD	54
Shooting Range Field	HAF-249-0.5	0.5	<LOD	<LOD	36	23169	18	505	<LOD	56
Shooting Range Field	HAF-249-1	1	<LOD	<LOD	<LOD	26907	36	491	<LOD	56
Shooting Range Field	HAF-249-1.5	1.5	9	<LOD	<LOD	26282	27	571	<LOD	49
Shooting Range Field	HAF-249-2	2	<LOD	<LOD	45	24150	101	418	<LOD	52
Shooting Range Field	HAF-249-2.5	2.5	<LOD	<LOD	<LOD	23212	34	504	<LOD	44
Shooting Range Field	HAF-250-0	0	<LOD	<LOD	41	21603	21	462	<LOD	39
Shooting Range Field	HAF-250-0 DUP	0	<LOD	<LOD	65	22950	115	549	<LOD	59
Shooting Range Field	HAF-250-0.5	0.5	<LOD	<LOD	<LOD	26214	24	547	<LOD	57
Shooting Range Field	HAF-250-1	1	<LOD	<LOD	40	23500	24	419	<LOD	54
Shooting Range Field	HAF-250-1.5	1.5	<LOD	<LOD	<LOD	20508	18	429	<LOD	35
Shooting Range Field	HAF-250-2	2	<LOD	<LOD	32	23919	19	545	<LOD	59
Shooting Range Field	HAF-251-0	0	<LOD	<LOD	65	20703	109	526	<LOD	63
Shooting Range Field	HAF-251-0.5	0.5	<LOD	<LOD	<LOD	22940	22	360	<LOD	49
Shooting Range Field	HAF-251-1	1	9	<LOD	<LOD	21408	14	484	<LOD	41

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-251-1.5	1.5	<LOD	262	<LOD	25335	16	558	<LOD	51
Shooting Range Field	HAF-251-2	2	<LOD	<LOD	34	24516	46	505	<LOD	57
Shooting Range Field	HAF-261-0	0	<LOD	<LOD	71	17714	36	499	<LOD	91
Shooting Range Field	HAF-261-0 DUP	0	<LOD	<LOD	57	23006	29	448	<LOD	73
Shooting Range Field	HAF-261-0.5	0.5	<LOD	<LOD	<LOD	26670	<LOD	660	<LOD	26
Shooting Range Field	HAF-261-1	1	<LOD	<LOD	<LOD	24231	15	618	<LOD	36
Shooting Range Field	HAF-261-1.5	1.5	<LOD	<LOD	<LOD	25089	12	546	<LOD	35
Shooting Range Field	HAF-261-2	2	<LOD	<LOD	<LOD	25575	<LOD	521	<LOD	40
Shooting Range Field	HAF-262-0	0	12	<LOD	146	24817	159	900	<LOD	72
Shooting Range Field	HAF-262-0 DUP	0	12	<LOD	151	24255	51	771	<LOD	63
Shooting Range Field	HAF-262-0.5	0.5	<LOD	<LOD	<LOD	26664	<LOD	899	<LOD	37
Shooting Range Field	HAF-262-1	1	<LOD	<LOD	42	27088	<LOD	950	<LOD	51
Shooting Range Field	HAF-262-1.5	1.5	<LOD	<LOD	<LOD	23479	12	816	<LOD	29
Shooting Range Field	HAF-262-2	2	<LOD	<LOD	43	25802	43	970	<LOD	63
Shooting Range Field	HAF-263-0	0	<LOD	<LOD	85	13811	291	460	<LOD	95
Shooting Range Field	HAF-263-0.5	0.5	<LOD	<LOD	35	21879	64	767	<LOD	52
Shooting Range Field	HAF-263-1	1	<LOD	<LOD	162	22801	34	907	<LOD	88
Shooting Range Field	HAF-263-1.5	1.5	<LOD	<LOD	218	22456	31	781	<LOD	97
Shooting Range Field	HAF-263-2	2	20	<LOD	42	15608	146	540	<LOD	70
Shooting Range Field	HAF-263-2.5	2.5	<LOD	<LOD	31	25526	31	560	<LOD	52
Shooting Range Field	HAF-264-0	0	14	<LOD	122	22144	76	689	<LOD	63
Shooting Range Field	HAF-264-0.5	0.5	<LOD	<LOD	200	23216	41	855	<LOD	97
Shooting Range Field	HAF-264-1	1	<LOD	<LOD	92	23089	23	748	<LOD	78
Shooting Range Field	HAF-264-1.5	1.5	<LOD	<LOD	29	23024	29	665	<LOD	66
Shooting Range Field	HAF-264-2	2	<LOD	<LOD	53	22865	43	763	<LOD	60
Shooting Range Field	HAF-265-0	0	<LOD	<LOD	58	21285	184	604	<LOD	57
Shooting Range Field	HAF-265-0 DUP	0	20	<LOD	108	22948	216	484	<LOD	75
Shooting Range Field	HAF-265-0.5	0.5	<LOD	<LOD	151	21312	148	436	<LOD	73
Shooting Range Field	HAF-265-1	1	<LOD	<LOD	156	24652	28	447	<LOD	86

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-265-1.5	1.5	<LOD	<LOD	37	25520	25	456	<LOD	57
Shooting Range Field	HAF-265-2	2	<LOD	<LOD	68	22055	150	552	<LOD	75
Shooting Range Field	HAF-265-2.5	2.5	<LOD	<LOD	44	20782	119	597	<LOD	55
Shooting Range Field	HAF-266-0	0	<LOD	<LOD	140	23186	403	770	<LOD	86
Shooting Range Field	HAF-266-0.5	0.5	<LOD	<LOD	89	23634	254	747	<LOD	66
Shooting Range Field	HAF-266-1	1	<LOD	<LOD	84	23709	42	761	<LOD	73
Shooting Range Field	HAF-266-1.5	1.5	<LOD	<LOD	74	80321	45	1694	<LOD	58
Shooting Range Field	HAF-266-2	2	14	<LOD	138	55498	76	1375	<LOD	90
Shooting Range Field	HAF-266-2.5	2.5	<LOD	<LOD	51	22979	286	499	<LOD	61
Shooting Range Field	HAF-267-0	0	<LOD	<LOD	147	29069	878	1233	<LOD	133
Shooting Range Field	HAF-267-0 DUP	0	38	<LOD	295	24611	566	841	<LOD	124
Shooting Range Field	HAF-267-0.5	0.5	41	<LOD	149	26770	572	954	<LOD	98
Shooting Range Field	HAF-267-1	1	<LOD	<LOD	192	25661	114	826	<LOD	120
Shooting Range Field	HAF-267-1.5	1.5	10	<LOD	231	26504	71	842	<LOD	119
Shooting Range Field	HAF-267-2	2	<LOD	<LOD	152	24865	118	718	<LOD	93
Shooting Range Field	HAF-267-2.5	2.5	<LOD	<LOD	69	24392	557	485	<LOD	75
Shooting Range Field	HAF-268-0	0	8	<LOD	486	25346	23	766	<LOD	168
Shooting Range Field	HAF-268-0.5	0.5	23	<LOD	127	24716	409	850	<LOD	77
Shooting Range Field	HAF-268-1	1	43	<LOD	144	25518	792	805	<LOD	66
Shooting Range Field	HAF-268-1.5	1.5	<LOD	<LOD	76	22376	71	832	<LOD	40
Shooting Range Field	HAF-268-2	2	<LOD	<LOD	133	23481	42	836	<LOD	67
Shooting Range Field	HAF-268-2.5	2.5	19	<LOD	42	24577	122	524	<LOD	51
Shooting Range Field	HAF-269-0	0	14	<LOD	55	19779	62	353	<LOD	34
Shooting Range Field	HAF-269-0.5	0.5	<LOD	<LOD	<LOD	18888	13	495	<LOD	38
Shooting Range Field	HAF-269-1	1	<LOD	<LOD	<LOD	18597	32	358	<LOD	47
Shooting Range Field	HAF-269-1.5	1.5	<LOD	<LOD	<LOD	21983	21	589	<LOD	43
Shooting Range Field	HAF-269-2	2	<LOD	<LOD	<LOD	24029	35	431	<LOD	49
Shooting Range Field	HAF-270-0	0	<LOD	<LOD	54	22925	103	463	<LOD	41
Shooting Range Field	HAF-270-0.5	0.5	<LOD	<LOD	<LOD	22008	19	377	<LOD	37

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-270-1	1	<LOD	<LOD	<LOD	28561	18	486	<LOD	44
Shooting Range Field	HAF-270-1.5	1.5	<LOD	<LOD	<LOD	26850	30	428	<LOD	48
Shooting Range Field	HAF-270-2	2	<LOD	<LOD	<LOD	28221	31	520	<LOD	57
Shooting Range Field	HAF-271-0	0	<LOD	<LOD	59	20152	157	517	<LOD	62
Shooting Range Field	HAF-271-0.5	0.5	<LOD	<LOD	33	20737	24	428	<LOD	47
Shooting Range Field	HAF-271-1	1	<LOD	<LOD	<LOD	22931	20	554	<LOD	46
Shooting Range Field	HAF-271-1.5	1.5	<LOD	<LOD	<LOD	25570	24	535	<LOD	52
Shooting Range Field	HAF-271-2	2	<LOD	<LOD	30	23941	37	371	<LOD	41
Shooting Range Field	HAF-272-0	0	<LOD	<LOD	60	23851	151	573	<LOD	84
Shooting Range Field	HAF-272-0 DUP	0	<LOD	<LOD	61	28025	81	571	<LOD	68
Shooting Range Field	HAF-272-0.5	0.5	<LOD	<LOD	<LOD	22252	22	377	<LOD	49
Shooting Range Field	HAF-272-1	1	<LOD	<LOD	<LOD	24421	24	569	<LOD	40
Shooting Range Field	HAF-272-1.5	1.5	<LOD	<LOD	<LOD	26328	28	428	<LOD	43
Shooting Range Field	HAF-272-2	2	<LOD	<LOD	38	22663	47	509	<LOD	58
Shooting Range Field	HAF-284-0	0	10	<LOD	88	20289	36	540	<LOD	71
Shooting Range Field	HAF-284-0.5	0.5	<LOD	<LOD	<LOD	22282	15	598	<LOD	33
Shooting Range Field	HAF-284-1	1	<LOD	<LOD	<LOD	25588	16	871	<LOD	41
Shooting Range Field	HAF-284-1.5	1.5	<LOD	<LOD	<LOD	22058	<LOD	770	<LOD	41
Shooting Range Field	HAF-284-2	2	10	<LOD	<LOD	21555	<LOD	556	<LOD	34
Shooting Range Field	HAF-285-0	0	<LOD	<LOD	49	19864	66	503	<LOD	52
Shooting Range Field	HAF-285-0 DUP	0	16	<LOD	43	25099	78	632	<LOD	64
Shooting Range Field	HAF-285-0.5	0.5	<LOD	<LOD	51	21622	39	536	<LOD	58
Shooting Range Field	HAF-285-1	1	10	<LOD	67	21207	32	494	<LOD	60
Shooting Range Field	HAF-285-1.5	1.5	9	<LOD	51	23753	20	617	<LOD	45
Shooting Range Field	HAF-285-2	2	<LOD	<LOD	<LOD	26374	21	648	<LOD	58
Shooting Range Field	HAF-286-0	0	10	<LOD	<LOD	26576	24	521	<LOD	53
Shooting Range Field	HAF-286-0.5	0.5	<LOD	<LOD	<LOD	30465	<LOD	401	<LOD	33
Shooting Range Field	HAF-286-1	1	<LOD	<LOD	29	29420	<LOD	436	<LOD	32
Shooting Range Field	HAF-286-1.5	1.5	<LOD	<LOD	<LOD	30013	14	451	<LOD	25

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-286-2	2	<LOD	<LOD	<LOD	12568	14	297	<LOD	27
Shooting Range Field	HAF-287-0	0	<LOD	<LOD	64	19838	141	471	<LOD	54
Shooting Range Field	HAF-287-0 DUP	0	<LOD	<LOD	69	23175	187	490	<LOD	59
Shooting Range Field	HAF-287-0.5	0.5	<LOD	<LOD	62	20813	35	481	<LOD	58
Shooting Range Field	HAF-287-1	1	<LOD	<LOD	44	19023	21	527	<LOD	33
Shooting Range Field	HAF-287-1.5	1.5	9	<LOD	<LOD	23108	22	442	<LOD	43
Shooting Range Field	HAF-287-2	2	<LOD	<LOD	29	24907	21	536	<LOD	62
Shooting Range Field	HAF-288-0	0	24	<LOD	55	18661	343	437	<LOD	49
Shooting Range Field	HAF-288-0.5	0.5	<LOD	<LOD	<LOD	22016	36	452	<LOD	54
Shooting Range Field	HAF-288-1	1	<LOD	<LOD	<LOD	21709	17	457	<LOD	51
Shooting Range Field	HAF-288-1.5	1.5	<LOD	<LOD	30	23137	25	481	<LOD	59
Shooting Range Field	HAF-288-2	2	<LOD	<LOD	<LOD	25026	22	662	<LOD	34
Shooting Range Field	HAF-289-0	0	<LOD	<LOD	80	17630	69	500	<LOD	48
Shooting Range Field	HAF-289-0 DUP	0	42	<LOD	83	24185	684	524	<LOD	40
Shooting Range Field	HAF-289-0.5	0.5	<LOD	<LOD	58	16778	21	492	<LOD	37
Shooting Range Field	HAF-289-1	1	<LOD	<LOD	35	22847	18	558	<LOD	41
Shooting Range Field	HAF-289-1.5	1.5	<LOD	<LOD	<LOD	25208	102	640	<LOD	35
Shooting Range Field	HAF-289-2	2	<LOD	<LOD	32	23703	25	612	<LOD	49
Shooting Range Field	HAF-290-0	0	<LOD	<LOD	66	20482	114	446	<LOD	51
Shooting Range Field	HAF-290-0 DUP	0	<LOD	<LOD	71	22006	153	588	<LOD	63
Shooting Range Field	HAF-290-0.5	0.5	9	<LOD	32	26759	18	527	<LOD	61
Shooting Range Field	HAF-290-1	1	<LOD	<LOD	<LOD	26010	21	615	<LOD	43
Shooting Range Field	HAF-290-1.5	1.5	<LOD	<LOD	<LOD	25641	24	501	<LOD	49
Shooting Range Field	HAF-290-2	2	<LOD	<LOD	32	25414	33	632	<LOD	50
Shooting Range Field	HAF-291-0	0	<LOD	<LOD	102	22021	72	583	<LOD	60
Shooting Range Field	HAF-291-0 DUP	0	<LOD	<LOD	80	23061	77	550	<LOD	74
Shooting Range Field	HAF-291-0.5	0.5	<LOD	<LOD	<LOD	22758	24	461	<LOD	44
Shooting Range Field	HAF-291-1	1	<LOD	<LOD	33	21873	19	598	<LOD	41
Shooting Range Field	HAF-291-1.5	1.5	<LOD	<LOD	33	24328	28	626	<LOD	53

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-291-2	2	14	<LOD	49	23708	84	485	<LOD	60
Shooting Range Field	HAF-292-0	0	<LOD	<LOD	71	20614	43	576	<LOD	50
Shooting Range Field	HAF-292-0 DUP	0	<LOD	<LOD	84	21812	33	535	<LOD	65
Shooting Range Field	HAF-292-0.5	0.5	<LOD	<LOD	<LOD	22666	27	578	<LOD	55
Shooting Range Field	HAF-292-1	1	<LOD	<LOD	<LOD	21986	16	378	<LOD	43
Shooting Range Field	HAF-292-1.5	1.5	<LOD	236	<LOD	25218	24	544	<LOD	52
Shooting Range Field	HAF-292-2	2	<LOD	<LOD	<LOD	25549	36	610	<LOD	66
Shooting Range Field	HAF-293-0	0	<LOD	<LOD	42	20399	37	483	<LOD	58
Shooting Range Field	HAF-293-0.5	0.5	<LOD	<LOD	34	20225	23	533	<LOD	50
Shooting Range Field	HAF-293-1	1	8	<LOD	<LOD	21256	14	482	<LOD	50
Shooting Range Field	HAF-293-1.5	1.5	11	<LOD	<LOD	24466	13	550	<LOD	48
Shooting Range Field	HAF-293-2	2	<LOD	<LOD	<LOD	23270	27	518	<LOD	60
Shooting Range Field	HAF-307-0	0	<LOD	<LOD	<LOD	13898	20	324	<LOD	<LOD
Shooting Range Field	HAF-307-0.5	0.5	<LOD	<LOD	46	11062	21	286	<LOD	28
Shooting Range Field	HAF-307-1	1	<LOD	<LOD	27	7211	<LOD	181	<LOD	<LOD
Shooting Range Field	HAF-307-1.5	1.5	<LOD	<LOD	<LOD	8475	14	217	<LOD	30
Shooting Range Field	HAF-307-2	2	<LOD	<LOD	<LOD	10645	<LOD	221	<LOD	30
Shooting Range Field	HAF-308-0	0	<LOD	<LOD	<LOD	26937	22	670	<LOD	59
Shooting Range Field	HAF-308-1	1	<LOD	<LOD	<LOD	24871	19	536	<LOD	44
Shooting Range Field	HAF-308-1.5	1.5	<LOD	<LOD	<LOD	11069	21	258	<LOD	47
Shooting Range Field	HAF-308-2	2	<LOD	<LOD	42	12228	34	217	<LOD	26
Shooting Range Field	HAF-309-0	0	14	<LOD	42	18207	105	460	<LOD	53
Shooting Range Field	HAF-309-0 DUP	0	12	<LOD	45	22527	129	565	<LOD	55
Shooting Range Field	HAF-309-0.5	0.5	<LOD	<LOD	<LOD	16283	45	421	<LOD	47
Shooting Range Field	HAF-309-1	1	<LOD	<LOD	<LOD	17376	23	490	<LOD	34
Shooting Range Field	HAF-309-1.5	1.5	<LOD	<LOD	<LOD	18695	22	390	<LOD	36
Shooting Range Field	HAF-309-2	2	8	284	<LOD	25644	12	817	<LOD	68
Shooting Range Field	HAF-310-0	0	<LOD	<LOD	64	17328	22	461	<LOD	31
Shooting Range Field	HAF-310-0.5	0.5	<LOD	<LOD	31	21596	16	377	<LOD	49

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-310-1	1	<LOD	<LOD	<LOD	19231	13	344	<LOD	35
Shooting Range Field	HAF-310-1.5	1.5	<LOD	<LOD	<LOD	19751	21	432	<LOD	43
Shooting Range Field	HAF-310-2	2	<LOD	205	36	23840	15	435	<LOD	40
Shooting Range Field	HAF-311-0	0	13	<LOD	60	23504	163	613	<LOD	63
Shooting Range Field	HAF-311-0.5	0.5	<LOD	<LOD	<LOD	20105	15	339	<LOD	45
Shooting Range Field	HAF-311-1	1	<LOD	<LOD	<LOD	18031	18	276	<LOD	50
Shooting Range Field	HAF-311-1.5	1.5	<LOD	<LOD	<LOD	21551	16	437	<LOD	50
Shooting Range Field	HAF-311-2	2	<LOD	<LOD	<LOD	21266	19	469	<LOD	62
Shooting Range Field	HAF-312-0	0	9	<LOD	69	20690	30	446	<LOD	58
Shooting Range Field	HAF-312-0.5	0.5	11	<LOD	29	18531	<LOD	307	<LOD	35
Shooting Range Field	HAF-312-1	1	<LOD	<LOD	<LOD	20971	20	410	<LOD	37
Shooting Range Field	HAF-312-1.5	1.5	<LOD	<LOD	29	24955	21	517	<LOD	55
Shooting Range Field	HAF-312-2	2	9	225	<LOD	26043	17	405	<LOD	66
Shooting Range Field	HAF-313-0	0	9	<LOD	87	26236	30	646	<LOD	86
Shooting Range Field	HAF-313-0.5	0.5	<LOD	<LOD	53	22844	26	511	<LOD	56
Shooting Range Field	HAF-313-1	1	<LOD	<LOD	<LOD	24982	19	528	<LOD	54
Shooting Range Field	HAF-313-1.5	1.5	<LOD	<LOD	<LOD	28510	15	602	<LOD	57
Shooting Range Field	HAF-313-2	2	<LOD	<LOD	49	26066	30	534	<LOD	79
Shooting Range Field	HAF-314-0	0	<LOD	<LOD	55	24634	36	473	<LOD	59
Shooting Range Field	HAF-314-0 DUP	0	<LOD	<LOD	62	22722	36	472	<LOD	49
Shooting Range Field	HAF-314-0.5	0.5	<LOD	<LOD	37	22293	24	545	<LOD	52
Shooting Range Field	HAF-314-1	1	<LOD	<LOD	<LOD	17770	17	388	<LOD	39
Shooting Range Field	HAF-314-1.5	1.5	<LOD	<LOD	<LOD	20215	28	437	<LOD	53
Shooting Range Field	HAF-314-2	2	<LOD	<LOD	<LOD	24585	28	541	<LOD	49
Shooting Range Field	HAF-330-0	0	<LOD	<LOD	29	20875	23	549	<LOD	49
Shooting Range Field	HAF-330-0 DUP	0	<LOD	<LOD	<LOD	17592	29	588	<LOD	37
Shooting Range Field	HAF-330-0.5	0.5	<LOD	<LOD	43	19399	26	435	<LOD	30
Shooting Range Field	HAF-330-1	1	<LOD	<LOD	<LOD	19825	<LOD	496	<LOD	48
Shooting Range Field	HAF-330-1.5	1.5	<LOD	<LOD	<LOD	22164	23	460	<LOD	49

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-330-2	2	<LOD	<LOD	<LOD	23614	31	583	<LOD	47
Shooting Range Field	HAF-331-0	0	<LOD	<LOD	<LOD	24394	25	509	<LOD	59
Shooting Range Field	HAF-331-0.5	0.5	<LOD	<LOD	70	19938	23	608	<LOD	36
Shooting Range Field	HAF-331-1	1	<LOD	<LOD	<LOD	26245	19	487	<LOD	49
Shooting Range Field	HAF-331-1.5	1.5	<LOD	<LOD	<LOD	25226	20	515	<LOD	35
Shooting Range Field	HAF-331-2	2	<LOD	<LOD	<LOD	25139	15	489	<LOD	35
Shooting Range Field	HAF-332-0	0	<LOD	<LOD	82	35595	24	410	<LOD	131
Shooting Range Field	HAF-332-0 DUP	0	<LOD	<LOD	45	20158	22	596	<LOD	64
Shooting Range Field	HAF-332-0.5	0.5	<LOD	<LOD	<LOD	21010	15	327	<LOD	36
Shooting Range Field	HAF-332-1	1	<LOD	<LOD	<LOD	19784	24	476	<LOD	39
Shooting Range Field	HAF-332-1.5	1.5	<LOD	<LOD	<LOD	19795	26	406	<LOD	41
Shooting Range Field	HAF-332-2	2	<LOD	<LOD	<LOD	22591	19	523	<LOD	29
Shooting Range Field	HAF-333-0	0	<LOD	<LOD	32	17440	29	440	<LOD	65
Shooting Range Field	HAF-333-0 DUP	0	<LOD	<LOD	39	21569	31	569	<LOD	72
Shooting Range Field	HAF-333-0.5	0.5	<LOD	<LOD	27	21110	17	403	<LOD	49
Shooting Range Field	HAF-333-1	1	<LOD	<LOD	<LOD	19601	14	403	<LOD	41
Shooting Range Field	HAF-333-1.5	1.5	<LOD	<LOD	<LOD	18736	16	340	<LOD	36
Shooting Range Field	HAF-333-2	2	<LOD	<LOD	<LOD	20187	13	332	<LOD	39
Shooting Range Field	HAF-334-0	0	9	<LOD	48	27013	26	498	<LOD	72
Shooting Range Field	HAF-334-0 DUP	0	<LOD	<LOD	44	26410	46	485	<LOD	64
Shooting Range Field	HAF-334-0.5	0.5	<LOD	<LOD	<LOD	23334	19	420	<LOD	59
Shooting Range Field	HAF-334-1	1	<LOD	<LOD	<LOD	22564	17	489	<LOD	54
Shooting Range Field	HAF-334-1.5	1.5	<LOD	<LOD	<LOD	25249	19	552	<LOD	69
Shooting Range Field	HAF-334-2	2	<LOD	<LOD	38	25448	21	497	<LOD	57
Shooting Range Field	HAF-335-0	0	<LOD	<LOD	<LOD	24588	30	499	<LOD	70
Shooting Range Field	HAF-335-0.5	0.5	<LOD	<LOD	39	22450	22	545	<LOD	43
Shooting Range Field	HAF-335-0.75	0.75	<LOD	<LOD	<LOD	22143	25	549	<LOD	42
Shooting Range Field	HAF-335-1	1	<LOD	<LOD	<LOD	25992	19	567	<LOD	53
Shooting Range Field	HAF-335-1.5	1.5	<LOD	<LOD	<LOD	24172	18	545	<LOD	42

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	HAF-335-2	2	<LOD	<LOD	35	24059	29	524	<LOD	47
Shooting Range Field	MW-7-1	1	<LOD	<LOD	31	25068	35	630	<LOD	60
Shooting Range Field	MW-7-3	3	<LOD	<LOD	<LOD	22984	24	426	<LOD	76
Shooting Range Field	MW-7-5	5	<LOD	<LOD	37	23644	45	512	<LOD	57
Shooting Range Field	MW-8-1	1	8	<LOD	31	26372	16	828	<LOD	48
Shooting Range Field	MW-8-3	3	<LOD	<LOD	<LOD	35432	20	842	<LOD	87
Shooting Range Field	MW-8-5	5	<LOD	<LOD	<LOD	35715	22	786	<LOD	55
Shooting Range Field	T-A-0	0	14	<LOD	<LOD	33150	198	688	<LOD	67
Shooting Range Field	T-A-2.5	2.5	<LOD	<LOD	47	31488	61	627	<LOD	63
Shooting Range Field	T-A-6	6	<LOD	<LOD	46	23478	31	511	<LOD	54
Shooting Range Field	T-B-0	0	<LOD	<LOD	<LOD	34584	24	874	<LOD	52
Shooting Range Field	T-B-0 DUP	0	<LOD	<LOD	34	30878	33	712	<LOD	72
Shooting Range Field	T-B-2.5	2.5	<LOD	<LOD	<LOD	32097	17	604	<LOD	56
Shooting Range Field	T-B-5	5	9	<LOD	<LOD	27911	23	559	<LOD	74
Shooting Range Field	T-C-0	0	9	<LOD	<LOD	30379	40	1490	<LOD	68
Shooting Range Field	T-C-2	2	<LOD	<LOD	<LOD	33091	20	561	<LOD	53
Shooting Range Field	T-C-4.5	4.5	<LOD	<LOD	<LOD	22106	19	496	<LOD	41
Shooting Range Field	T-D-0	0	<LOD	<LOD	<LOD	34719	27	896	<LOD	62
Shooting Range Field	T-D-2	2	<LOD	<LOD	<LOD	35258	<LOD	645	<LOD	52
Shooting Range Field	T-D-4	4	<LOD	<LOD	30	25878	23	589	<LOD	50
Shooting Range Field	TE-1M-0	0	12	<LOD	82	22733	71	684	<LOD	65
Shooting Range Field	TE-1m-0 DUP	0	<LOD	<LOD	<LOD	17628	32	434	<LOD	52
Shooting Range Field	TE-1m-0.5	0.5	<LOD	<LOD	77	20149	30	562	<LOD	45
Shooting Range Field	TE-1m-1	1	<LOD	<LOD	54	19558	42	578	<LOD	37
Shooting Range Field	TE-1m-1.5	1.5	<LOD	<LOD	<LOD	20459	26	641	<LOD	40
Shooting Range Field	TE-1m-2	2	<LOD	<LOD	<LOD	21373	30	632	<LOD	56
Shooting Range Field	TE-1N-0	0	<LOD	<LOD	51	23146	188	601	<LOD	71
Shooting Range Field	TE-1n-0.5	0.5	<LOD	<LOD	66	20030	37	570	<LOD	42
Shooting Range Field	TE-1n-1	1	<LOD	<LOD	74	20480	25	642	<LOD	48

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TE-1n-1.5	1.5	<LOD	<LOD	<LOD	19765	26	600	<LOD	56
Shooting Range Field	TE-1n-2	2	<LOD	<LOD	32	24008	44	593	<LOD	50
Shooting Range Field	TE-1S-0	0	<LOD	<LOD	49	25914	114	551	<LOD	55
Shooting Range Field	TE-1S-0.5	0.5	9	<LOD	68	19947	52	389	<LOD	36
Shooting Range Field	TE-1s-1	1	<LOD	<LOD	85	18566	20	378	<LOD	39
Shooting Range Field	TE-1s-1.5	1.5	<LOD	<LOD	55	17091	35	444	<LOD	28
Shooting Range Field	TE-1s-2	2	<LOD	<LOD	39	19060	31	467	<LOD	32
Shooting Range Field	TE-2M-0	0	<LOD	<LOD	63	24674	186	408	<LOD	72
Shooting Range Field	TE-2M-0.5	0.5	11	<LOD	65	24498	70	430	<LOD	53
Shooting Range Field	TE-2m-1	1	<LOD	<LOD	40	19356	33	518	<LOD	50
Shooting Range Field	TE-2m-1.5	1.5	<LOD	<LOD	<LOD	26474	33	601	<LOD	53
Shooting Range Field	TE-2m-2	2	<LOD	<LOD	33	23769	35	631	<LOD	42
Shooting Range Field	TE-2N-0	0	<LOD	<LOD	51	25093	233	567	<LOD	64
Shooting Range Field	TE-2N-0 DUP	0	29	<LOD	58	29422	254	673	<LOD	90
Shooting Range Field	TE-2N-0.5	0.5	<LOD	<LOD	70	20908	61	469	<LOD	57
Shooting Range Field	TE-2n-1	1	<LOD	<LOD	54	21390	26	463	<LOD	47
Shooting Range Field	TE-2n-1.5	1.5	11	<LOD	<LOD	23615	43	456	<LOD	46
Shooting Range Field	TE-2n-2	2	<LOD	<LOD	<LOD	22882	26	472	<LOD	41
Shooting Range Field	TE-2S-0	0	<LOD	<LOD	56	23478	189	392	<LOD	57
Shooting Range Field	TE-2S-0 DUP	0	20	<LOD	61	27864	188	622	<LOD	81
Shooting Range Field	TE-2s-0.5	0.5	10	<LOD	76	21844	28	397	<LOD	54
Shooting Range Field	TE-2s-1	1	<LOD	<LOD	77	19745	30	501	<LOD	37
Shooting Range Field	TE-2s-1.5	1.5	<LOD	<LOD	<LOD	23948	23	540	<LOD	37
Shooting Range Field	TE-2s-2	2	11	<LOD	34	19732	47	387	<LOD	57
Shooting Range Field	TE-3M-0	0	<LOD	<LOD	44	29265	93	533	<LOD	84
Shooting Range Field	TE-3M-0 DUP	0	<LOD	<LOD	41	27281	160	725	<LOD	75
Shooting Range Field	TE-3M-0.5	0.5	<LOD	<LOD	74	22290	80	499	<LOD	61
Shooting Range Field	TE-3m-1	1	<LOD	<LOD	58	21490	30	363	<LOD	44
Shooting Range Field	TE-3m-1.5	1.5	<LOD	<LOD	76	21118	29	465	<LOD	32

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TE-3m-2	2	<LOD	<LOD	<LOD	24439	30	500	<LOD	56
Shooting Range Field	TE-3N-0	0	<LOD	<LOD	48	27572	64	632	<LOD	72
Shooting Range Field	TE-3n-0.5	0.5	<LOD	<LOD	82	20952	31	470	<LOD	40
Shooting Range Field	TE-3n-1	1	<LOD	<LOD	39	22862	33	432	<LOD	31
Shooting Range Field	TE-3n-1.5	1.5	11	<LOD	<LOD	24360	26	454	<LOD	41
Shooting Range Field	TE-3n-2	2	<LOD	<LOD	40	23111	19	624	<LOD	37
Shooting Range Field	TE-3S-0	0	<LOD	<LOD	37	25406	67	491	<LOD	67
Shooting Range Field	TE-3s-0.5	0.5	<LOD	<LOD	79	21287	38	468	<LOD	41
Shooting Range Field	TE-3s-1	1	<LOD	<LOD	41	21583	41	460	<LOD	42
Shooting Range Field	TE-3s-1.5	1.5	<LOD	<LOD	<LOD	25663	24	499	<LOD	56
Shooting Range Field	TE-3s-2	2	<LOD	<LOD	<LOD	26524	26	523	<LOD	50
Shooting Range Field	TF-89-0	0	21	<LOD	35	26786	400	443	<LOD	62
Shooting Range Field	TF-89-0.5	0.5	<LOD	<LOD	<LOD	28395	441	589	<LOD	70
Shooting Range Field	TF-89-1	1	<LOD	<LOD	<LOD	26316	299	462	<LOD	56
Shooting Range Field	TF-89-1.5	1.5	<LOD	<LOD	31	25161	31	497	<LOD	55
Shooting Range Field	TF-89-2	2	<LOD	<LOD	35	26573	20	620	<LOD	63
Shooting Range Field	TF-89-2.5	2.5	<LOD	<LOD	<LOD	26874	19	625	<LOD	67
Shooting Range Field	TF-114-0	0	<LOD	<LOD	<LOD	25641	388	545	<LOD	54
Shooting Range Field	TF-114-0.5	0.5	<LOD	<LOD	<LOD	25795	151	628	<LOD	58
Shooting Range Field	TF-114-1	1	<LOD	<LOD	<LOD	25162	32	543	<LOD	51
Shooting Range Field	TF-114-1.5	1.5	<LOD	<LOD	<LOD	25247	39	651	<LOD	56
Shooting Range Field	TF-114-2	2	<LOD	<LOD	<LOD	25943	49	588	<LOD	45
Shooting Range Field	TF-114-2.5	2.5	12	<LOD	<LOD	25797	98	557	<LOD	65
Shooting Range Field	TF-114-3	3	<LOD	<LOD	<LOD	25399	59	676	<LOD	75
Shooting Range Field	TF-114-3.5	3.5	<LOD	<LOD	<LOD	32395	23	635	<LOD	66
Shooting Range Field	TF-141-0	0	23	<LOD	41	25363	385	450	<LOD	71
Shooting Range Field	TF-141-0.5	0.5	42	<LOD	69	25562	905	505	<LOD	92
Shooting Range Field	TF-141-1	1	<LOD	<LOD	58	26563	1078	548	<LOD	83
Shooting Range Field	TF-141-1.5	1.5	22	<LOD	37	24929	40	458	<LOD	71

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-141-2	2	9	<LOD	40	26468	39	505	<LOD	79
Shooting Range Field	TF-141-2.5	2.5	<LOD	<LOD	52	26281	37	606	<LOD	80
Shooting Range Field	TF-146 QA/QC-0	0	<LOD	<LOD	84	24849	1573	451	<LOD	83
Shooting Range Field	TF-146 QA/QC-0.5	0.5	<LOD	<LOD	118	24750	797	474	<LOD	80
Shooting Range Field	TF-146 QA/QC-1	1	<LOD	<LOD	63	25789	140	340	<LOD	82
Shooting Range Field	TF-146 QA/QC-1.5	1.5	<LOD	<LOD	39	25320	29	414	<LOD	71
Shooting Range Field	TF-146 QA/QC-2	2	<LOD	<LOD	33	26275	46	464	<LOD	80
Shooting Range Field	TF-146 QA/QC-2.5	2.5	<LOD	<LOD	<LOD	26163	21	628	<LOD	53
Shooting Range Field	TF-146 QA/QC-3	3	<LOD	<LOD	<LOD	20833	23	455	<LOD	54
Shooting Range Field	TF-161-0	0	13	<LOD	<LOD	27815	137	427	<LOD	74
Shooting Range Field	TF-161-0.5	0.5	9	<LOD	<LOD	29172	27	480	<LOD	74
Shooting Range Field	TF-161-1	1	<LOD	<LOD	<LOD	24961	18	382	<LOD	61
Shooting Range Field	TF-161-1.5	1.5	<LOD	<LOD	<LOD	24784	16	419	<LOD	67
Shooting Range Field	TF-161-2	2	8	<LOD	29	23371	15	524	<LOD	47
Shooting Range Field	TF-161-2.5	2.5	<LOD	<LOD	<LOD	26809	17	360	<LOD	63
Shooting Range Field	TF-172-0	0	15	<LOD	56	29678	248	569	<LOD	76
Shooting Range Field	TF-172-0.5	0.5	26	<LOD	35	26338	549	532	<LOD	48
Shooting Range Field	TF-172-1	1	19	<LOD	<LOD	26808	481	600	<LOD	63
Shooting Range Field	TF-172-1.5	1.5	<LOD	<LOD	76	23649	619	569	<LOD	78
Shooting Range Field	TF-172-2	2	33	<LOD	79	23927	908	411	<LOD	73
Shooting Range Field	TF-172-2.5	2.5	<LOD	<LOD	57	23770	39	762	<LOD	73
Shooting Range Field	TF-193M-0	0	<LOD	<LOD	39	23175	54	469	<LOD	118
Shooting Range Field	TF-193m-0.5	0.5	11	<LOD	71	24774	44	576	<LOD	82
Shooting Range Field	TF-193m-1	1	11	<LOD	59	24204	33	602	<LOD	74
Shooting Range Field	TF-193m-1.5	1.5	9	<LOD	<LOD	24602	20	516	<LOD	49
Shooting Range Field	TF-193m-2	2	16	<LOD	33	23668	20	494	<LOD	61
Shooting Range Field	TF-193M-2.5	2.5	<LOD	<LOD	31	24344	21	364	<LOD	73
Shooting Range Field	TF-194m-0	0	12	<LOD	38	21701	37	445	<LOD	70
Shooting Range Field	TF-194m-0.5	0.5	<LOD	<LOD	42	21801	33	488	<LOD	60

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-194m-1	1	<LOD	<LOD	30	24486	28	450	<LOD	37
Shooting Range Field	TF-194m-1.5	1.5	<LOD	<LOD	<LOD	24267	16	557	<LOD	58
Shooting Range Field	TF-194m-2	2	<LOD	<LOD	<LOD	23305	30	530	<LOD	58
Shooting Range Field	TF-194M-2.5	2.5	<LOD	<LOD	<LOD	22984	23	463	<LOD	59
Shooting Range Field	TF-195M-0	0	<LOD	<LOD	46	22819	83	506	<LOD	64
Shooting Range Field	TF-195m-0.5	0.5	<LOD	302	60	22404	58	448	<LOD	78
Shooting Range Field	TF-195m-1	1	<LOD	<LOD	66	23017	35	563	<LOD	66
Shooting Range Field	TF-195m-1.5	1.5	12	<LOD	44	24576	21	508	<LOD	54
Shooting Range Field	TF-195m-2	2	<LOD	<LOD	<LOD	24603	20	592	<LOD	54
Shooting Range Field	TF-195M-2.5	2.5	<LOD	<LOD	<LOD	25815	27	581	<LOD	73
Shooting Range Field	TF-196M-0	0	<LOD	<LOD	74	24310	110	567	<LOD	70
Shooting Range Field	TF-196m-0.5	0.5	<LOD	<LOD	33	26103	38	522	<LOD	46
Shooting Range Field	TF-196m-1	1	<LOD	<LOD	<LOD	24536	26	491	<LOD	38
Shooting Range Field	TF-196m-1.5	1.5	<LOD	<LOD	<LOD	24436	28	559	<LOD	62
Shooting Range Field	TF-196m-2	2	<LOD	<LOD	29	23091	29	460	<LOD	48
Shooting Range Field	TF-196M-2.5	2.5	10	<LOD	<LOD	24101	25	430	<LOD	77
Shooting Range Field	TF-197M-0	0	26	<LOD	63	23539	494	573	<LOD	86
Shooting Range Field	TF-197M-0.5	0.5	<LOD	<LOD	39	27319	56	650	<LOD	61
Shooting Range Field	TF-197m-1	1	<LOD	<LOD	39	26626	37	522	<LOD	51
Shooting Range Field	TF-197m-1.5	1.5	<LOD	<LOD	34	26774	23	624	<LOD	63
Shooting Range Field	TF-197m-2	2	10	<LOD	<LOD	25396	29	608	<LOD	53
Shooting Range Field	TF-197M-2.5	2.5	<LOD	<LOD	33	23883	20	463	<LOD	50
Shooting Range Field	TF-198M-0	0	<LOD	<LOD	68	24649	202	622	<LOD	71
Shooting Range Field	TF-198M-0.5	0.5	<LOD	<LOD	43	23561	127	621	<LOD	61
Shooting Range Field	TF-198m-1	1	<LOD	<LOD	30	25807	25	640	<LOD	67
Shooting Range Field	TF-198m-1.5	1.5	<LOD	<LOD	<LOD	25539	27	547	<LOD	70
Shooting Range Field	TF-198m-2	2	<LOD	<LOD	41	25212	48	512	<LOD	53
Shooting Range Field	TF-198M-2.5	2.5	<LOD	<LOD	<LOD	24687	18	512	<LOD	62
Shooting Range Field	TF-199M-0	0	19	<LOD	<LOD	24196	328	465	<LOD	65

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-199M-0 DUP	0	<LOD	<LOD	<LOD	26469	268	624	<LOD	77
Shooting Range Field	TF-199M-0.5	0.5	29	<LOD	60	23616	434	510	<LOD	71
Shooting Range Field	TF-199M-1	1	<LOD	<LOD	48	24075	636	670	<LOD	64
Shooting Range Field	TF-199M-1.5	1.5	22	<LOD	78	25047	237	550	<LOD	57
Shooting Range Field	TF-199m-2	2	<LOD	<LOD	<LOD	27829	31	521	<LOD	61
Shooting Range Field	TF-199M-2.5	2.5	9	<LOD	<LOD	27194	21	491	<LOD	62
Shooting Range Field	TF-199N-0	0	17	<LOD	47	25102	295	533	<LOD	57
Shooting Range Field	TF-199N-0.5	0.5	35	<LOD	72	26686	717	671	<LOD	75
Shooting Range Field	TF-199N-1	1	15	<LOD	77	24417	301	697	<LOD	76
Shooting Range Field	TF-199n-1.5	1.5	<LOD	<LOD	30	26777	31	897	<LOD	57
Shooting Range Field	TF-199n-2	2	12	<LOD	<LOD	28261	26	652	<LOD	63
Shooting Range Field	TF-199S-0	0	22	<LOD	<LOD	23913	262	551	<LOD	70
Shooting Range Field	TF-199S-0.5	0.5	21	<LOD	56	23362	473	775	<LOD	72
Shooting Range Field	TF-199S-1	1	53	<LOD	79	24717	697	480	<LOD	66
Shooting Range Field	TF-199S-1.5	1.5	<LOD	<LOD	66	25812	92	595	<LOD	62
Shooting Range Field	TF-199s-2	2	<LOD	<LOD	<LOD	26004	47	514	<LOD	55
Shooting Range Field	TF-200M-0	0	28	<LOD	36	24863	568	474	<LOD	59
Shooting Range Field	TF-200M-0.5	0.5	38	<LOD	58	24318	529	408	<LOD	60
Shooting Range Field	TF-200M-1	1	12	<LOD	51	26359	129	522	<LOD	74
Shooting Range Field	TF-200M-1.5	1.5	<LOD	<LOD	35	27337	50	595	<LOD	65
Shooting Range Field	TF-200m-2	2	11	<LOD	<LOD	25967	15	544	<LOD	62
Shooting Range Field	TF-200M-2.5	2.5	<LOD	<LOD	33	22808	18	478	<LOD	66
Shooting Range Field	TF-200N-0	0	28	<LOD	29	24617	495	635	<LOD	61
Shooting Range Field	TF-200N-0 DUP	0	19	<LOD	38	24866	312	439	<LOD	72
Shooting Range Field	TF-200N-0.5	0.5	35	<LOD	82	24758	623	558	<LOD	74
Shooting Range Field	TF-200N-1	1	17	<LOD	<LOD	26355	165	540	<LOD	64
Shooting Range Field	TF-200n-1.5	1.5	<LOD	<LOD	<LOD	25255	34	621	<LOD	56
Shooting Range Field	TF-200n-2	2	<LOD	<LOD	<LOD	25123	24	481	<LOD	53
Shooting Range Field	TF-200S-0	0	25	<LOD	31	23998	557	428	<LOD	68

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-200S-0 DUP	0	22	<LOD	33	24183	400	520	<LOD	62
Shooting Range Field	TF-200S-0.5	0.5	36	<LOD	83	25569	560	543	<LOD	65
Shooting Range Field	TF-200S-1	1	35	<LOD	65	25294	315	554	<LOD	60
Shooting Range Field	TF-200S-1.5	1.5	<LOD	<LOD	31	27786	67	514	<LOD	56
Shooting Range Field	TF-200s-2	2	10	<LOD	<LOD	28320	41	481	<LOD	52
Shooting Range Field	TF-201m-0	0	26	<LOD	104	25086	680	495	<LOD	76
Shooting Range Field	TF-201M-0 DUP	0	19	<LOD	58	25162	287	506	<LOD	66
Shooting Range Field	TF-201M-0.5	0.5	<LOD	<LOD	88	23512	311	562	<LOD	70
Shooting Range Field	TF-201M-1	1	<LOD	<LOD	51	26022	136	471	<LOD	62
Shooting Range Field	TF-201m-1.5	1.5	<LOD	<LOD	35	26810	31	501	<LOD	58
Shooting Range Field	TF-201m-2	2	<LOD	<LOD	<LOD	27054	20	462	<LOD	57
Shooting Range Field	TF-201M-2.5	2.5	<LOD	<LOD	<LOD	25758	19	380	<LOD	75
Shooting Range Field	TF-201N-0	0	32	<LOD	98	26047	589	547	<LOD	85
Shooting Range Field	TF-201N-0.5	0.5	22	<LOD	68	23653	392	498	<LOD	70
Shooting Range Field	TF-201N-1	1	38	<LOD	87	24539	375	612	<LOD	61
Shooting Range Field	TF-201N-1.5	1.5	<LOD	<LOD	43	25109	111	563	<LOD	50
Shooting Range Field	TF-201N-2	2	<LOD	<LOD	<LOD	27215	62	593	<LOD	57
Shooting Range Field	TF-201N-2.5	2.5	<LOD	<LOD	35	24950	24	572	<LOD	64
Shooting Range Field	TF-201S-0	0	33	<LOD	85	25780	675	604	<LOD	68
Shooting Range Field	TF-201S-0.5	0.5	36	<LOD	92	23190	613	433	<LOD	70
Shooting Range Field	TF-201S-1	1	<LOD	<LOD	67	24737	116	495	<LOD	74
Shooting Range Field	TF-201s-1.5	1.5	<LOD	<LOD	<LOD	28093	27	497	<LOD	76
Shooting Range Field	TF-201s-2	2	<LOD	<LOD	<LOD	26401	30	545	<LOD	77
Shooting Range Field	TF-202M-0	0	29	<LOD	36	24753	486	424	<LOD	70
Shooting Range Field	TF-202M-0.5	0.5	28	<LOD	76	24243	375	802	<LOD	75
Shooting Range Field	TF-202M-1	1	15	<LOD	90	24265	193	452	<LOD	74
Shooting Range Field	TF-202M-1.5	1.5	19	<LOD	34	27106	214	508	<LOD	53
Shooting Range Field	TF-202m-2	2	<LOD	<LOD	29	26890	37	488	<LOD	51
Shooting Range Field	TF-202M-2.5	2.5	<LOD	<LOD	<LOD	24112	21	486	<LOD	70

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-202N-0	0	23	<LOD	40	23841	409	447	<LOD	60
Shooting Range Field	TF-202N-0 DUP	0	21	<LOD	31	25117	433	453	<LOD	68
Shooting Range Field	TF-202N-0.5	0.5	24	<LOD	74	25089	637	468	<LOD	68
Shooting Range Field	TF-202N-1	1	22	<LOD	95	24725	225	550	<LOD	58
Shooting Range Field	TF-202N-1.5	1.5	<LOD	<LOD	58	24881	107	582	<LOD	71
Shooting Range Field	TF-202N-2	2	<LOD	<LOD	32	25681	71	618	<LOD	52
Shooting Range Field	TF-202N-2.5	2.5	<LOD	<LOD	<LOD	24257	24	586	<LOD	71
Shooting Range Field	TF-202S-0	0	48	<LOD	55	24122	964	550	<LOD	72
Shooting Range Field	TF-202S-0 DUP	0	65	<LOD	37	24609	1106	500	<LOD	61
Shooting Range Field	TF-202S-0.5	0.5	13	<LOD	112	23979	79	635	<LOD	65
Shooting Range Field	TF-202S-1	1	15	<LOD	65	25911	124	563	<LOD	57
Shooting Range Field	TF-202s-1.5	1.5	<LOD	221	<LOD	23666	29	1742	<LOD	68
Shooting Range Field	TF-202s-2	2	<LOD	<LOD	<LOD	27166	41	511	<LOD	60
Shooting Range Field	TF-203M-0	0	48	<LOD	76	25513	840	513	<LOD	85
Shooting Range Field	TF-203M-0.5	0.5	15	<LOD	81	25612	149	492	<LOD	68
Shooting Range Field	TF-203M-1	1	12	<LOD	70	26002	54	453	<LOD	65
Shooting Range Field	TF-203m-1.5	1.5	<LOD	<LOD	<LOD	26728	25	589	<LOD	67
Shooting Range Field	TF-203m-2	2	<LOD	<LOD	<LOD	26862	18	564	<LOD	57
Shooting Range Field	TF-203M-2.5	2.5	<LOD	<LOD	<LOD	26796	20	412	<LOD	60
Shooting Range Field	TF-203N-0	0	22	<LOD	69	24363	659	492	<LOD	71
Shooting Range Field	TF-203N-0.5	0.5	24	<LOD	96	25143	364	704	<LOD	76
Shooting Range Field	TF-203N-1	1	24	<LOD	88	25749	229	536	<LOD	67
Shooting Range Field	TF-203n-1.5	1.5	<LOD	<LOD	<LOD	27187	48	573	<LOD	52
Shooting Range Field	TF-203n-2	2	<LOD	<LOD	<LOD	27116	30	483	<LOD	73
Shooting Range Field	TF-203n-2 DUP	2	<LOD	<LOD	<LOD	26865	41	529	<LOD	73
Shooting Range Field	TF-203S-0	0	24	<LOD	58	25395	579	475	<LOD	63
Shooting Range Field	TF-203S-0.5	0.5	24	<LOD	106	23744	424	535	<LOD	71
Shooting Range Field	TF-203S-1	1	14	<LOD	70	26454	160	555	<LOD	69
Shooting Range Field	TF-203s-1.5	1.5	<LOD	<LOD	<LOD	27788	37	567	<LOD	75

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-203s-2	2	<LOD	<LOD	<LOD	24999	26	429	<LOD	58
Shooting Range Field	TF-204M-0	0	<LOD	<LOD	60	25840	536	669	<LOD	88
Shooting Range Field	TF-204M-0.5	0.5	14	<LOD	105	25562	122	625	<LOD	64
Shooting Range Field	TF-204m-1	1	12	<LOD	38	26835	38	609	<LOD	65
Shooting Range Field	TF-204m-1.5	1.5	<LOD	<LOD	<LOD	26611	33	503	<LOD	60
Shooting Range Field	TF-204m-2	2	<LOD	<LOD	<LOD	27857	25	601	<LOD	70
Shooting Range Field	TF-204m-2 DUP	2	<LOD	<LOD	<LOD	27246	35	523	<LOD	75
Shooting Range Field	TF-204M-2.5	2.5	<LOD	<LOD	<LOD	27227	15	475	<LOD	67
Shooting Range Field	TF-204N-0	0	<LOD	<LOD	53	25580	946	568	<LOD	68
Shooting Range Field	TF-204N-0.5	0.5	18	<LOD	74	25367	80	567	<LOD	58
Shooting Range Field	TF-204N-1	1	11	<LOD	<LOD	29484	73	681	<LOD	68
Shooting Range Field	TF-204n-1.5	1.5	<LOD	<LOD	<LOD	27811	31	590	<LOD	72
Shooting Range Field	TF-204n-2	2	<LOD	<LOD	<LOD	28600	40	690	<LOD	62
Shooting Range Field	TF-204S-0	0	27	<LOD	70	26403	579	489	<LOD	87
Shooting Range Field	TF-204S-0.5	0.5	<LOD	<LOD	60	27530	266	678	<LOD	67
Shooting Range Field	TF-204S-1	1	31	<LOD	73	24113	419	560	<LOD	65
Shooting Range Field	TF-204S-1.5	1.5	<LOD	<LOD	39	28717	113	495	<LOD	66
Shooting Range Field	TF-204s-2	2	<LOD	<LOD	<LOD	27479	34	588	<LOD	57
Shooting Range Field	TF-205M-0	0	29	<LOD	98	27668	572	593	<LOD	66
Shooting Range Field	TF-205M-0.5	0.5	<LOD	<LOD	33	27614	92	535	<LOD	70
Shooting Range Field	TF-205M-1	1	32	<LOD	<LOD	28653	270	604	<LOD	63
Shooting Range Field	TF-205m-1.5	1.5	<LOD	<LOD	31	26593	21	552	<LOD	67
Shooting Range Field	TF-205m-2	2	<LOD	<LOD	<LOD	27528	47	643	<LOD	47
Shooting Range Field	TF-205M-2 DUP	2	<LOD	<LOD	<LOD	26235	37	548	<LOD	57
Shooting Range Field	TF-205M-2.5	2.5	<LOD	219	<LOD	25026	21	490	<LOD	54
Shooting Range Field	TF-205N-0	0	22	<LOD	80	27241	567	652	<LOD	92
Shooting Range Field	TF-205N-0.5	0.5	16	<LOD	46	26880	83	522	<LOD	61
Shooting Range Field	TF-205N-1	1	<LOD	<LOD	36	27737	121	492	<LOD	54
Shooting Range Field	TF-205n-1.5	1.5	<LOD	<LOD	<LOD	26972	31	594	<LOD	68

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-205n-2	2	<LOD	<LOD	<LOD	28095	39	529	<LOD	56
Shooting Range Field	TF-205S-0	0	27	<LOD	57	27749	683	568	<LOD	65
Shooting Range Field	TF-205S-0.5	0.5	13	<LOD	46	27670	66	615	<LOD	70
Shooting Range Field	TF-205s-1	1	<LOD	<LOD	<LOD	26956	42	550	<LOD	56
Shooting Range Field	TF-205s-1.5	1.5	<LOD	<LOD	42	27580	30	551	<LOD	64
Shooting Range Field	TF-205s-2	2	<LOD	<LOD	<LOD	26512	33	592	<LOD	61
Shooting Range Field	TF-223-0	0	37	<LOD	89	26326	630	539	<LOD	84
Shooting Range Field	TF-223-0.5	0.5	20	<LOD	78	24331	321	519	80	78
Shooting Range Field	TF-223-1	1	21	<LOD	71	24073	238	530	<LOD	69
Shooting Range Field	TF-223-1.5	1.5	<LOD	<LOD	<LOD	28119	28	590	<LOD	57
Shooting Range Field	TF-223-2	2	11	<LOD	<LOD	25687	14	563	<LOD	57
Shooting Range Field	TF-223-2.5	2.5	<LOD	<LOD	<LOD	25812	30	403	<LOD	74
Shooting Range Field	TF-223-3	3	<LOD	<LOD	<LOD	26655	27	475	<LOD	63
Shooting Range Field	TF-225-0	0	32	<LOD	60	23740	881	459	<LOD	81
Shooting Range Field	TF-225-0.5	0.5	16	<LOD	56	26072	75	530	<LOD	68
Shooting Range Field	TF-225-1	1	<LOD	<LOD	<LOD	24370	43	895	<LOD	61
Shooting Range Field	TF-225-1.5	1.5	<LOD	<LOD	<LOD	26056	23	488	<LOD	64
Shooting Range Field	TF-225-2	2	<LOD	<LOD	<LOD	26306	26	372	<LOD	70
Shooting Range Field	TF-225-2.5	2.5	<LOD	<LOD	<LOD	27721	42	499	<LOD	72
Shooting Range Field	TF-225-3	3	<LOD	<LOD	<LOD	26376	30	758	<LOD	66
Shooting Range Field	TF-226-0	0	38	<LOD	74	25424	1148	625	<LOD	76
Shooting Range Field	TF-226-0.5	0.5	11	<LOD	39	25910	75	600	<LOD	60
Shooting Range Field	TF-226-1	1	<LOD	<LOD	31	28290	60	577	<LOD	66
Shooting Range Field	TF-226-1.5	1.5	<LOD	<LOD	<LOD	27845	42	547	<LOD	71
Shooting Range Field	TF-226-2	2	<LOD	<LOD	32	27140	47	600	<LOD	68
Shooting Range Field	TF-226-2.5	2.5	<LOD	<LOD	<LOD	26745	22	559	<LOD	63
Shooting Range Field	TF-226-3	3	<LOD	<LOD	<LOD	27121	19	597	<LOD	61
Shooting Range Field	TF-240-0.5	0.5	<LOD	<LOD	<LOD	23911	28	434	<LOD	66
Shooting Range Field	TF-246-0	0	<LOD	<LOD	72	24236	1075	573	<LOD	67

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-246-0.5	0.5	<LOD	<LOD	61	25102	147	546	<LOD	71
Shooting Range Field	TF-246-1	1	<LOD	<LOD	49	26635	93	492	<LOD	59
Shooting Range Field	TF-246-1.5	1.5	<LOD	<LOD	<LOD	25327	39	607	<LOD	65
Shooting Range Field	TF-246-2	2	<LOD	<LOD	<LOD	24900	37	519	<LOD	73
Shooting Range Field	TF-246-2.5	2.5	<LOD	<LOD	<LOD	24544	28	480	<LOD	68
Shooting Range Field	TF-246-3	3	8	<LOD	<LOD	27107	12	615	<LOD	62
Shooting Range Field	TF-247-0	0	33	<LOD	57	28598	640	539	<LOD	71
Shooting Range Field	TF-247-0.5	0.5	<LOD	<LOD	44	23078	112	400	<LOD	59
Shooting Range Field	TF-247-1	1	25	<LOD	<LOD	23316	168	548	<LOD	51
Shooting Range Field	TF-247-1.5	1.5	17	<LOD	<LOD	25977	138	444	<LOD	62
Shooting Range Field	TF-247-2	2	<LOD	<LOD	<LOD	25934	36	453	<LOD	41
Shooting Range Field	TF-247-2.5	2.5	<LOD	<LOD	<LOD	25546	32	535	<LOD	42
Shooting Range Field	TF-247-3	3	<LOD	<LOD	<LOD	24022	21	554	<LOD	56
Shooting Range Field	TF-265-0	0	<LOD	<LOD	61	22067	191	517	<LOD	85
Shooting Range Field	TF-265-0.5	0.5	<LOD	<LOD	70	22368	58	488	<LOD	78
Shooting Range Field	TF-265-1	1	<LOD	<LOD	70	22743	50	447	<LOD	71
Shooting Range Field	TF-265-1.5	1.5	<LOD	<LOD	<LOD	24670	29	383	<LOD	58
Shooting Range Field	TF-265-2	2	<LOD	<LOD	<LOD	24551	20	451	<LOD	69
Shooting Range Field	TF-265-2.5	2.5	<LOD	<LOD	<LOD	23030	20	471	<LOD	68
Shooting Range Field	TF-265-3	3	<LOD	<LOD	30	24377	19	506	<LOD	72
Shooting Range Field	TF-266-0	0	<LOD	<LOD	94	23831	420	522	<LOD	70
Shooting Range Field	TF-266-0.5	0.5	<LOD	<LOD	75	23255	224	480	<LOD	75
Shooting Range Field	TF-266-1	1	<LOD	238	37	25267	53	996	<LOD	81
Shooting Range Field	TF-266-1.5	1.5	11	<LOD	30	24795	14	460	<LOD	71
Shooting Range Field	TF-266-2	2	<LOD	<LOD	<LOD	24094	23	434	<LOD	62
Shooting Range Field	TF-266-2.5	2.5	10	<LOD	<LOD	24157	22	409	<LOD	55
Shooting Range Field	TF-266-3	3	<LOD	<LOD	32	23713	26	528	<LOD	48
Shooting Range Field	TF-267-0	0	39	<LOD	46	26479	642	497	<LOD	84
Shooting Range Field	TF-267-0.5	0.5	14	<LOD	58	26585	124	642	<LOD	79

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TF-267-1	1	<LOD	<LOD	53	25438	84	627	<LOD	66
Shooting Range Field	TF-267-1.5	1.5	<LOD	<LOD	43	26848	69	491	<LOD	70
Shooting Range Field	TF-267-2	2	<LOD	<LOD	<LOD	25844	24	425	<LOD	62
Shooting Range Field	TF-267-2.5	2.5	<LOD	<LOD	<LOD	24283	21	365	<LOD	59
Shooting Range Field	TF-267-3	3	<LOD	<LOD	<LOD	25229	24	647	<LOD	73
Shooting Range Field	TN-1M-0	0	<LOD	<LOD	41	25950	281	554	<LOD	82
Shooting Range Field	TN-1M-0.5	0.5	<LOD	<LOD	40	24955	64	528	<LOD	68
Shooting Range Field	TN-1m-1	1	<LOD	<LOD	55	25309	27	393	<LOD	70
Shooting Range Field	TN-1M-1.5	1.5	<LOD	<LOD	46	25534	106	550	<LOD	51
Shooting Range Field	TN-1m-2	2	15	<LOD	<LOD	27343	27	908	<LOD	45
Shooting Range Field	TN-1N-0	0	<LOD	<LOD	53	26217	361	523	<LOD	103
Shooting Range Field	TN-1N-0.5	0.5	27	<LOD	57	26247	244	646	<LOD	66
Shooting Range Field	TN-1n-1	1	<LOD	<LOD	<LOD	27806	34	708	<LOD	54
Shooting Range Field	TN-1n-1.5	1.5	<LOD	<LOD	<LOD	27594	27	693	<LOD	53
Shooting Range Field	TN-1N-2	2	<LOD	<LOD	<LOD	25221	82	715	<LOD	53
Shooting Range Field	TN-1n-2.5	2.5	<LOD	<LOD	<LOD	30971	21	666	<LOD	69
Shooting Range Field	TN-1S-0	0	<LOD	<LOD	57	25282	153	530	<LOD	71
Shooting Range Field	TN-1s-0.5	0.5	<LOD	<LOD	39	24700	34	583	<LOD	66
Shooting Range Field	TN-1s-1	1	<LOD	<LOD	39	24992	19	502	<LOD	50
Shooting Range Field	TN-1s-1.5	1.5	<LOD	<LOD	56	26816	20	611	<LOD	57
Shooting Range Field	TN-1s-2	2	<LOD	<LOD	<LOD	26488	21	689	<LOD	53
Shooting Range Field	TN-2M-0	0	<LOD	<LOD	73	25577	993	477	<LOD	82
Shooting Range Field	TN-2M-0.5	0.5	49	<LOD	58	25511	1163	553	<LOD	63
Shooting Range Field	TN-2M-1	1	53	<LOD	70	25079	908	583	<LOD	77
Shooting Range Field	TN-2M-1.5	1.5	99	<LOD	69	27492	1387	692	<LOD	75
Shooting Range Field	TN-2M-2	2	<LOD	<LOD	46	29228	111	767	<LOD	61
Shooting Range Field	TN-2m-2.5	2.5	<LOD	<LOD	<LOD	21137	17	447	<LOD	36
Shooting Range Field	TN-2N-0	0	24	<LOD	82	25385	832	452	<LOD	93
Shooting Range Field	TN-2N-0.5	0.5	51	<LOD	63	25266	963	500	<LOD	79

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Shooting Range Field	TN-2N-1	1	39	<LOD	65	25206	1032	512	<LOD	70
Shooting Range Field	TN-2N-1.5	1.5	28	<LOD	50	25482	1173	466	<LOD	76
Shooting Range Field	TN-2N-2	2	18	<LOD	42	28953	203	732	<LOD	54
Shooting Range Field	TN-2n-2.5	2.5	<LOD	<LOD	<LOD	22326	20	416	<LOD	55
Shooting Range Field	TN-2S-0	0	27	<LOD	94	25734	639	595	<LOD	76
Shooting Range Field	TN-2S-0.5	0.5	45	<LOD	78	25212	940	683	<LOD	77
Shooting Range Field	TN-2S-1	1	<LOD	<LOD	54	24655	1270	602	<LOD	66
Shooting Range Field	TN-2S-1.5	1.5	40	<LOD	65	25940	1042	538	<LOD	76
Shooting Range Field	TN-2S-2	2	<LOD	<LOD	<LOD	29000	171	768	<LOD	73
Shooting Range Field	TN-2s-2.5	2.5	<LOD	<LOD	<LOD	20245	28	494	<LOD	53
Shooting Range Field	TN-3M-0	0	36	<LOD	70	24937	815	522	<LOD	76
Shooting Range Field	TN-3M-0.5	0.5	<LOD	<LOD	58	25686	1086	550	<LOD	73
Shooting Range Field	TN-3M-1	1	56	<LOD	63	25151	1144	603	<LOD	82
Shooting Range Field	TN-3M-1.5	1.5	<LOD	<LOD	53	27439	113	879	<LOD	77
Shooting Range Field	TN-3m-2	2	<LOD	<LOD	<LOD	26304	39	753	<LOD	50
Shooting Range Field	TN-3N-0	0	47	<LOD	73	24937	872	488	<LOD	80
Shooting Range Field	TN-3N-0.5	0.5	42	<LOD	67	24808	1499	347	<LOD	73
Shooting Range Field	TN-3N-1	1	50	<LOD	90	26368	1045	593	<LOD	92
Shooting Range Field	TN-3N-1.5	1.5	<LOD	<LOD	38	28552	195	568	<LOD	83
Shooting Range Field	TN-3n-2	2	<LOD	<LOD	<LOD	29315	43	820	<LOD	67
Shooting Range Field	TN-3S-0	0	40	<LOD	61	25209	874	518	<LOD	77
Shooting Range Field	TN-3S-0.5	0.5	59	<LOD	77	25728	1148	455	<LOD	91
Shooting Range Field	TN-3S-1	1	59	<LOD	54	25522	1333	528	<LOD	73
Shooting Range Field	TN-3S-1.5	1.5	38	<LOD	56	26647	561	614	<LOD	77
Shooting Range Field	TN-3S-2	2	<LOD	<LOD	<LOD	27663	79	806	<LOD	54
Shooting Range Field	TN-3s-2.5	2.5	<LOD	<LOD	<LOD	23904	16	494	<LOD	59
Target Debris Field	HAT-1-0	0	<LOD	<LOD	33	35354	<LOD	901	<LOD	47
Target Debris Field	HAT-1-0.5	0.5	<LOD	<LOD	33	36969	<LOD	1000	<LOD	44
Target Debris Field	HAT-1-1	1	<LOD	<LOD	<LOD	37709	<LOD	993	<LOD	49

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-1-1.5	1.5	9	<LOD	31	39427	<LOD	972	<LOD	43
Target Debris Field	HAT-2-0	0	<LOD	<LOD	<LOD	35273	17	929	<LOD	59
Target Debris Field	HAT-2-0.5	0.5	<LOD	<LOD	<LOD	36831	<LOD	965	<LOD	54
Target Debris Field	HAT-2-1	1	<LOD	<LOD	<LOD	37637	<LOD	997	<LOD	49
Target Debris Field	HAT-3-0	0	<LOD	<LOD	<LOD	35025	<LOD	966	<LOD	47
Target Debris Field	HAT-3-0.5	0.5	<LOD	<LOD	<LOD	42373	15	1029	<LOD	66
Target Debris Field	HAT-3-1	1	<LOD	<LOD	<LOD	39107	<LOD	993	<LOD	45
Target Debris Field	HAT-3-1.5	1.5	<LOD	<LOD	<LOD	39335	<LOD	1012	<LOD	54
Target Debris Field	HAT-3-2	2	<LOD	<LOD	<LOD	39557	15	973	<LOD	73
Target Debris Field	HAT-4-0	0	<LOD	<LOD	34	40033	17	1254	<LOD	69
Target Debris Field	HAT-4-0.5	0.5	<LOD	<LOD	32	39556	20	1143	<LOD	66
Target Debris Field	HAT-4-1	1	<LOD	<LOD	<LOD	40116	21	1383	<LOD	72
Target Debris Field	HAT-4-1.5	1.5	<LOD	<LOD	<LOD	40926	15	1230	<LOD	61
Target Debris Field	HAT-4-2	2	<LOD	<LOD	<LOD	38421	<LOD	1087	<LOD	58
Target Debris Field	HAT-5-0	0	<LOD	<LOD	<LOD	31859	26	853	<LOD	55
Target Debris Field	HAT-5-0.5	0.5	<LOD	<LOD	<LOD	32747	<LOD	805	<LOD	39
Target Debris Field	HAT-5-1	1	<LOD	<LOD	<LOD	33724	13	779	<LOD	49
Target Debris Field	HAT-5-1.5	1.5	<LOD	<LOD	<LOD	35787	<LOD	830	<LOD	50
Target Debris Field	HAT-5-2	2	<LOD	<LOD	<LOD	34967	<LOD	828	<LOD	36
Target Debris Field	HAT-6-0	0	<LOD	<LOD	<LOD	28571	75	712	<LOD	25
Target Debris Field	HAT-6-0.5	0.5	<LOD	<LOD	<LOD	27911	39	722	<LOD	39
Target Debris Field	HAT-6-1	1	<LOD	<LOD	30	28147	32	748	<LOD	37
Target Debris Field	HAT-7-0	0	<LOD	<LOD	<LOD	29894	14	517	<LOD	63
Target Debris Field	HAT-7-0.5	0.5	<LOD	<LOD	<LOD	26238	13	510	<LOD	48
Target Debris Field	HAT-7-0.5 DUP	0.5	<LOD	<LOD	<LOD	20548	<LOD	440	<LOD	38
Target Debris Field	HAT-7-1	1	<LOD	<LOD	<LOD	23745	<LOD	365	<LOD	40
Target Debris Field	HAT-7-1.5	1.5	<LOD	<LOD	<LOD	22111	12	402	<LOD	26
Target Debris Field	HAT-8-0	0	<LOD	<LOD	30	25881	21	539	<LOD	58
Target Debris Field	HAT-8-0.5	0.5	<LOD	<LOD	38	24094	17	463	<LOD	45

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-8-1	1	<LOD	<LOD	<LOD	21266	15	507	<LOD	27
Target Debris Field	HAT-8-1.5	1.5	<LOD	<LOD	<LOD	23870	14	451	<LOD	54
Target Debris Field	HAT-9-0	0	<LOD	<LOD	35	28137	14	1016	<LOD	39
Target Debris Field	HAT-9-0.5	0.5	<LOD	<LOD	<LOD	25817	<LOD	1087	<LOD	35
Target Debris Field	HAT-9-1	1	<LOD	<LOD	<LOD	26605	<LOD	1006	<LOD	42
Target Debris Field	HAT-10-0	0	<LOD	<LOD	30	19562	33	544	<LOD	55
Target Debris Field	HAT-10-0.5	0.5	<LOD	<LOD	36	26992	64	1047	<LOD	82
Target Debris Field	HAT-10-0.5 DUP	0.5	<LOD	<LOD	<LOD	28951	24	1802	<LOD	63
Target Debris Field	HAT-10-1	1	<LOD	<LOD	<LOD	24189	32	836	<LOD	67
Target Debris Field	HAT-11-0	0	<LOD	<LOD	<LOD	18246	<LOD	650	<LOD	45
Target Debris Field	HAT-11-0.5	0.5	<LOD	<LOD	<LOD	25796	12	1213	<LOD	37
Target Debris Field	HAT-11-1	1	<LOD	<LOD	<LOD	27469	<LOD	1419	<LOD	51
Target Debris Field	HAT-11-1.5	1.5	<LOD	<LOD	112	27081	15	1594	<LOD	69
Target Debris Field	HAT-11-2	2	<LOD	<LOD	31	22153	14	1034	<LOD	45
Target Debris Field	HAT-12-0	0	<LOD	<LOD	<LOD	27836	16	470	<LOD	51
Target Debris Field	HAT-13-0	0	<LOD	<LOD	<LOD	21594	<LOD	584	<LOD	36
Target Debris Field	HAT-13-0.5	0.5	<LOD	<LOD	<LOD	25115	16	648	<LOD	24
Target Debris Field	HAT-13-0.5 DUP	0.5	<LOD	<LOD	<LOD	23515	<LOD	706	<LOD	41
Target Debris Field	HAT-14A-0	0	<LOD	272	41	30294	52	1737	<LOD	84
Target Debris Field	HAT-14A-0.5	0.5	10	<LOD	<LOD	21568	<LOD	655	<LOD	35
Target Debris Field	HAT-14A-0.5 DUP	0.5	<LOD	<LOD	34	22851	<LOD	557	<LOD	35
Target Debris Field	HAT-14B-0	0	<LOD	<LOD	32	21947	20	708	<LOD	52
Target Debris Field	HAT-14B-0.5	0.5	<LOD	<LOD	<LOD	41476	<LOD	1177	<LOD	45
Target Debris Field	HAT-14B-1	1	<LOD	<LOD	<LOD	35243	17	985	<LOD	65
Target Debris Field	HAT-15-0	0	<LOD	<LOD	48	30563	<LOD	854	<LOD	50
Target Debris Field	HAT-15-0.5	0.5	<LOD	<LOD	<LOD	28328	<LOD	783	<LOD	38
Target Debris Field	HAT-15-1	1	<LOD	<LOD	<LOD	30735	<LOD	908	<LOD	43
Target Debris Field	HAT-16-0	0	11	<LOD	29	21134	23	616	<LOD	63
Target Debris Field	HAT-16-0.5	0.5	<LOD	<LOD	32	21462	36	604	<LOD	55

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-16-1	1	<LOD	<LOD	<LOD	21344	17	511	<LOD	45
Target Debris Field	HAT-16-1.5	1.5	<LOD	<LOD	<LOD	23956	14	594	<LOD	37
Target Debris Field	HAT-16-2	2	<LOD	<LOD	<LOD	24965	<LOD	582	<LOD	51
Target Debris Field	HAT-17-0	0	<LOD	<LOD	<LOD	38859	<LOD	962	<LOD	64
Target Debris Field	HAT-17-0.5	0.5	10	<LOD	<LOD	38002	<LOD	874	<LOD	59
Target Debris Field	HAT-17-0.5 DUP	0.5	<LOD	<LOD	<LOD	37839	18	975	<LOD	59
Target Debris Field	HAT-18-0	0	<LOD	<LOD	36	38690	20	1249	<LOD	67
Target Debris Field	HAT-18-0.5	0.5	<LOD	<LOD	<LOD	39243	14	1231	<LOD	53
Target Debris Field	HAT-18-0.5 DUP	0.5	<LOD	<LOD	35	37463	13	1298	<LOD	49
Target Debris Field	HAT-18-1	1	<LOD	<LOD	<LOD	39158	18	1277	<LOD	60
Target Debris Field	HAT-18-1.5	1.5	<LOD	<LOD	<LOD	39148	15	1261	<LOD	59
Target Debris Field	HAT-18-2	2	<LOD	<LOD	<LOD	40286	<LOD	1231	<LOD	61
Target Debris Field	HAT-19-0	0	<LOD	<LOD	<LOD	27438	30	572	<LOD	67
Target Debris Field	HAT-19-0.5	0.5	12	<LOD	<LOD	28640	<LOD	699	<LOD	59
Target Debris Field	HAT-19-0.5 DUP	0.5	<LOD	<LOD	<LOD	23746	<LOD	643	<LOD	49
Target Debris Field	HAT-20-0	0	<LOD	<LOD	<LOD	22983	13	537	<LOD	41
Target Debris Field	HAT-20-0.5	0.5	<LOD	<LOD	95	29715	<LOD	448	<LOD	88
Target Debris Field	HAT-20-0.5 DUP	0.5	<LOD	<LOD	57	26325	27	485	<LOD	77
Target Debris Field	HAT-20-1	1	<LOD	<LOD	74	28851	14	322	<LOD	68
Target Debris Field	HAT-20-1.5	1.5	17	<LOD	120	31628	18	576	<LOD	102
Target Debris Field	HAT-20-2	2	11	<LOD	88	26811	20	494	<LOD	85
Target Debris Field	HAT-20A-0	0	<LOD	<LOD	<LOD	25156	18	747	<LOD	48
Target Debris Field	HAT-20A-0.5	0.5	<LOD	<LOD	<LOD	25761	<LOD	789	<LOD	33
Target Debris Field	HAT-20A-1	1	<LOD	<LOD	31	27652	17	821	<LOD	38
Target Debris Field	HAT-20A-1.5	1.5	<LOD	<LOD	<LOD	27352	<LOD	674	<LOD	31
Target Debris Field	HAT-20A-2	2	9	<LOD	<LOD	33553	19	682	<LOD	56
Target Debris Field	HAT-21-0	0	<LOD	<LOD	<LOD	28365	27	711	<LOD	63
Target Debris Field	HAT-21-0.5	0.5	<LOD	<LOD	37	23684	17	555	<LOD	57
Target Debris Field	HAT-21-1	1	<LOD	225	<LOD	13366	<LOD	345	<LOD	<LOD

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-21-1.5	1.5	25	<LOD	38	43638	32	807	<LOD	122
Target Debris Field	HAT-21-2	2	14	<LOD	<LOD	39323	31	1144	<LOD	94
Target Debris Field	HAT-22-0	0	<LOD	<LOD	<LOD	29492	14	673	<LOD	51
Target Debris Field	HAT-22-0.5	0.5	<LOD	<LOD	<LOD	23866	<LOD	535	<LOD	31
Target Debris Field	HAT-22-1	1	<LOD	460	85	23174	31	1020	187	53
Target Debris Field	HAT-22-1.5	1.5	<LOD	<LOD	<LOD	27458	<LOD	490	<LOD	44
Target Debris Field	HAT-23-0	0	<LOD	<LOD	43	23936	23	531	<LOD	49
Target Debris Field	HAT-23-0.5	0.5	<LOD	<LOD	<LOD	15905	<LOD	251	<LOD	24
Target Debris Field	HAT-23-0.5 DUP	0.5	8	<LOD	128	25489	15	718	<LOD	82
Target Debris Field	HAT-23-1	1	<LOD	<LOD	32	21191	13	571	<LOD	45
Target Debris Field	HAT-24-0	0	<LOD	<LOD	29	23780	<LOD	565	<LOD	59
Target Debris Field	HAT-24-0.5	0.5	<LOD	<LOD	32	31829	12	849	<LOD	77
Target Debris Field	HAT-24-1	1	19	<LOD	78	42066	32	683	<LOD	102
Target Debris Field	HAT-24-1.5	1.5	14	<LOD	119	43996	38	747	<LOD	110
Target Debris Field	HAT-24-2	2	23	<LOD	116	42480	32	861	<LOD	125
Target Debris Field	HAT-25-0	0	<LOD	<LOD	<LOD	31222	15	791	<LOD	41
Target Debris Field	HAT-25-0.5	0.5	<LOD	<LOD	<LOD	40982	15	1056	<LOD	66
Target Debris Field	HAT-25-1	1	<LOD	<LOD	<LOD	35587	<LOD	956	<LOD	54
Target Debris Field	HAT-25-1.5	1.5	<LOD	<LOD	<LOD	41080	16	1501	<LOD	61
Target Debris Field	HAT-25-2	2	<LOD	<LOD	<LOD	40725	20	984	<LOD	51
Target Debris Field	HAT-26-0	0	<LOD	<LOD	<LOD	38133	19	974	<LOD	64
Target Debris Field	HAT-26-0.5	0.5	<LOD	<LOD	<LOD	36360	15	928	<LOD	55
Target Debris Field	HAT-26-0.5 DUP	0.5	<LOD	<LOD	<LOD	42269	16	1059	<LOD	64
Target Debris Field	HAT-26-1	1	<LOD	<LOD	<LOD	35311	<LOD	902	<LOD	56
Target Debris Field	HAT-26-1.5	1.5	<LOD	<LOD	<LOD	41961	15	958	<LOD	64
Target Debris Field	HAT-26-2	2	<LOD	<LOD	39	36841	<LOD	883	<LOD	52
Target Debris Field	HAT-27-0	0	<LOD	<LOD	43	36621	19	1035	<LOD	61
Target Debris Field	HAT-27-0.5	0.5	<LOD	<LOD	<LOD	39906	21	988	<LOD	66
Target Debris Field	HAT-27-0.5 DUP	0.5	<LOD	224	39	37881	14	831	<LOD	40

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-27-1	1	<LOD	<LOD	42	39418	18	945	<LOD	63
Target Debris Field	HAT-27-1.5	1.5	<LOD	242	<LOD	41313	<LOD	1094	<LOD	72
Target Debris Field	HAT-28-0	0	<LOD	<LOD	<LOD	38076	<LOD	646	<LOD	68
Target Debris Field	HAT-28-0.5	0.5	<LOD	<LOD	31	38989	16	848	<LOD	69
Target Debris Field	HAT-28-0.5 DUP	0.5	<LOD	<LOD	<LOD	38544.82	<LOD	712.94	<LOD	53.9
Target Debris Field	HAT-28-1	1	<LOD	<LOD	<LOD	37906	<LOD	869	<LOD	58
Target Debris Field	HAT-28-1.5	1.5	<LOD	<LOD	<LOD	39732	<LOD	859	<LOD	68
Target Debris Field	HAT-28-2	2	<LOD	256	<LOD	40258	13	628	<LOD	65
Target Debris Field	HAT-29-0	0	<LOD	<LOD	<LOD	28211	19	488	<LOD	51
Target Debris Field	HAT-29-0.5	0.5	<LOD	<LOD	<LOD	30058	20	632	<LOD	65
Target Debris Field	HAT-29-0.5 DUP	0.5	<LOD	<LOD	<LOD	28557	18	691	<LOD	58
Target Debris Field	HAT-29-1	1	<LOD	418	<LOD	33031	17	2171	<LOD	58
Target Debris Field	HAT-29-1.5	1.5	<LOD	<LOD	<LOD	33688	<LOD	688	<LOD	58
Target Debris Field	HAT-29-2	2	<LOD	<LOD	<LOD	29551	15	493	<LOD	70
Target Debris Field	HAT-30-0	0	<LOD	<LOD	42	24423	13	461	<LOD	31
Target Debris Field	HAT-30-0.5	0.5	<LOD	<LOD	<LOD	24128	20	525	<LOD	57
Target Debris Field	HAT-30-0.5 DUP	0.5	<LOD	<LOD	<LOD	25924	21	582	<LOD	57
Target Debris Field	HAT-30-1	1	<LOD	<LOD	<LOD	24233	<LOD	367	<LOD	39
Target Debris Field	HAT-30-1.5	1.5	<LOD	<LOD	36	23148	16	439	<LOD	49
Target Debris Field	HAT-30-2	2	<LOD	<LOD	<LOD	26397	19	469	<LOD	60
Target Debris Field	HAT-31-0	0	<LOD	<LOD	<LOD	30148	20	909	<LOD	43
Target Debris Field	HAT-31-0.5	0.5	<LOD	<LOD	<LOD	26254	25	702	<LOD	45
Target Debris Field	HAT-32-0	0	<LOD	<LOD	<LOD	21436	12	467	<LOD	43
Target Debris Field	HAT-32-0.5	0.5	<LOD	<LOD	<LOD	19068	<LOD	387	<LOD	33
Target Debris Field	HAT-32-0.5 DUP	0.5	<LOD	<LOD	27	19794	<LOD	467	<LOD	39
Target Debris Field	HAT-32-1.5	1.5	<LOD	<LOD	<LOD	19444	16	351	<LOD	32
Target Debris Field	HAT-33-0	0	<LOD	<LOD	29	26103	29	700	<LOD	51
Target Debris Field	HAT-33-0.5	0.5	<LOD	<LOD	<LOD	21744	22	371	<LOD	37
Target Debris Field	HAT-34-0	0	12	<LOD	38	30115	32	972	<LOD	68

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-34-0.5	0.5	<LOD	<LOD	50	30474	<LOD	864	<LOD	72
Target Debris Field	HAT-34-1	1	<LOD	<LOD	<LOD	27955	17	814	<LOD	50
Target Debris Field	HAT-35-0	0	11	<LOD	<LOD	33707	31	2366	<LOD	91
Target Debris Field	HAT-35-0.5	0.5	24	<LOD	35	33654	20	706	<LOD	79
Target Debris Field	HAT-35-1	1	15	<LOD	<LOD	34624	27	668	<LOD	98
Target Debris Field	HAT-35-1.5	1.5	20	<LOD	33	35231	22	582	<LOD	93
Target Debris Field	HAT-35-2	2	17	<LOD	45	42085	53	697	<LOD	121
Target Debris Field	HAT-36-0	0	<LOD	<LOD	36	22249	16	488	<LOD	42
Target Debris Field	HAT-36-0.5	0.5	<LOD	<LOD	<LOD	23028	14	531	<LOD	29
Target Debris Field	HAT-37-0	0	<LOD	<LOD	<LOD	19911	<LOD	584	<LOD	35
Target Debris Field	HAT-37-0.5	0.5	<LOD	<LOD	<LOD	24708	<LOD	524	<LOD	43
Target Debris Field	HAT-37-1	1	<LOD	<LOD	<LOD	25226	16	513	<LOD	56
Target Debris Field	HAT-37-1.5	1.5	<LOD	<LOD	<LOD	27812	12	648	<LOD	56
Target Debris Field	HAT-37-2	2	<LOD	<LOD	<LOD	26546	16	601	<LOD	58
Target Debris Field	HAT-38-0	0	<LOD	<LOD	<LOD	28115	16	783	<LOD	41
Target Debris Field	HAT-38-0.5	0.5	<LOD	<LOD	<LOD	28080	20	840	<LOD	46
Target Debris Field	HAT-39-0	0	<LOD	<LOD	<LOD	23510	27	456	<LOD	61
Target Debris Field	HAT-39-0.5	0.5	26	<LOD	<LOD	36272	38	1269	<LOD	110
Target Debris Field	HAT-39-1.5	1.5	20	<LOD	43	44815	68	1017	<LOD	123
Target Debris Field	HAT-39-2	2	14	<LOD	<LOD	39614	24	577	<LOD	107
Target Debris Field	HAT-40-0	0	<LOD	<LOD	<LOD	27744	31	684	<LOD	55
Target Debris Field	HAT-40-0.5	0.5	<LOD	<LOD	<LOD	24387	<LOD	819	<LOD	30
Target Debris Field	HAT-41-0	0	<LOD	<LOD	<LOD	15208	<LOD	369	<LOD	32
Target Debris Field	HAT-41-0.5	0.5	<LOD	<LOD	<LOD	18687	13	534	<LOD	54
Target Debris Field	HAT-41-0.5 DUP	0.5	<LOD	<LOD	<LOD	22047	<LOD	663	<LOD	32
Target Debris Field	HAT-41-1	1	<LOD	<LOD	32	21796	11	453	<LOD	53
Target Debris Field	HAT-41-1.5	1.5	<LOD	<LOD	30	24477	15	1596	<LOD	55
Target Debris Field	HAT-41-2	2	<LOD	<LOD	40	24874	<LOD	619	<LOD	65
Target Debris Field	HAT-42-0	0	<LOD	<LOD	<LOD	26203	23	472	<LOD	59

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-42-0.5	0.5	9	<LOD	<LOD	32378	29	581	<LOD	87
Target Debris Field	HAT-42-0.5 DUP	0.5	<LOD	<LOD	97	46393	<LOD	484	<LOD	113
Target Debris Field	HAT-42-1	1	13	<LOD	41	30800	22	506	<LOD	60
Target Debris Field	HAT-42-1.5	1.5	17	<LOD	31	29382	18	367	<LOD	98
Target Debris Field	HAT-42-2	2	19	<LOD	67	30669	20	327	<LOD	73
Target Debris Field	HAT-43-0 g	0	10	<LOD	45	31499	46	823	<LOD	66
Target Debris Field	HAT-43-0 ng	0	<LOD	<LOD	90	31226	48	856	<LOD	103
Target Debris Field	HAT-43-0.5 g	0.5	20	<LOD	322	33472	30	751	<LOD	139
Target Debris Field	HAT-43-0.5 ng	0.5	20	<LOD	418	32149	24	825	<LOD	186
Target Debris Field	HAT-43-1 g	1	21	<LOD	130	34431	22	607	<LOD	106
Target Debris Field	HAT-43-1 ng	1	20	<LOD	138	33226	22	549	<LOD	105
Target Debris Field	HAT-43-1.5 g	1.5	21	<LOD	110	38338	27	446	<LOD	113
Target Debris Field	HAT-43-1.5 ng	1.5	12	<LOD	163	35209	31	359	<LOD	132
Target Debris Field	HAT-43-2 g	2	28	<LOD	60	39993	36	517	<LOD	103
Target Debris Field	HAT-43-2 ng	2	26	<LOD	141	40460	53	434	<LOD	113
Target Debris Field	HAT-44-0	0	<LOD	<LOD	55	20964	<LOD	369	<LOD	49
Target Debris Field	HAT-44-0.5	0.5	<LOD	<LOD	<LOD	16988	14	332	<LOD	30
Target Debris Field	HAT-44-0.5 DUP	0.5	<LOD	<LOD	<LOD	17017	19	427	<LOD	39
Target Debris Field	HAT-44-1	1	<LOD	<LOD	<LOD	11246	<LOD	219	<LOD	19
Target Debris Field	HAT-45-0	0	<LOD	<LOD	56	23504	12	691	<LOD	45
Target Debris Field	HAT-45-0.5	0.5	<LOD	<LOD	<LOD	19428	<LOD	527	<LOD	31
Target Debris Field	HAT-45-1	1	<LOD	<LOD	<LOD	15791	<LOD	527	<LOD	32
Target Debris Field	HAT-45-1.5	1.5	<LOD	<LOD	<LOD	20859	<LOD	684	<LOD	42
Target Debris Field	HAT-46-0	0	<LOD	<LOD	<LOD	25974	28	552	<LOD	92
Target Debris Field	HAT-46-0.5	0.5	<LOD	<LOD	<LOD	21734	18	432	<LOD	61
Target Debris Field	HAT-46-0.5 DUP	0.5	<LOD	<LOD	<LOD	22231	15	468	<LOD	48
Target Debris Field	HAT-46-1	1	<LOD	<LOD	<LOD	24090	<LOD	507	<LOD	45
Target Debris Field	HAT-47-0	0	<LOD	<LOD	<LOD	28508	91	531	<LOD	66
Target Debris Field	HAT-47-0.5	0.5	<LOD	<LOD	<LOD	28003	12	423	<LOD	38

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-47-1	1	<LOD	<LOD	<LOD	25189	20	436	<LOD	51
Target Debris Field	HAT-47-1.5	1.5	<LOD	<LOD	<LOD	27508	16	454	<LOD	55
Target Debris Field	HAT-47-2	2	<LOD	<LOD	35	29293	14	454	<LOD	43
Target Debris Field	HAT-48-0	0	<LOD	<LOD	<LOD	25807	22	437	<LOD	44
Target Debris Field	HAT-48-0.5	0.5	<LOD	<LOD	<LOD	24976	13	580	<LOD	84
Target Debris Field	HAT-48-1	1	<LOD	<LOD	<LOD	18492	<LOD	315	<LOD	34
Target Debris Field	HAT-49-0	0	10	<LOD	35	45984	71	1190	<LOD	115
Target Debris Field	HAT-49-0.5	0.5	<LOD	<LOD	41	35487	41	1027	<LOD	72
Target Debris Field	HAT-49-0.5 DUP	0.5	<LOD	<LOD	52	31834	32	969	<LOD	57
Target Debris Field	HAT-50-0	0	<LOD	<LOD	<LOD	33767	39	985	<LOD	62
Target Debris Field	HAT-50-0.5	0.5	<LOD	<LOD	<LOD	43032	17	1489	<LOD	74
Target Debris Field	HAT-51-0	0	<LOD	<LOD	32	18596	17	388	<LOD	28
Target Debris Field	HAT-51-0.5	0.5	<LOD	<LOD	<LOD	19767	20	623	<LOD	56
Target Debris Field	HAT-51-1	1	<LOD	<LOD	<LOD	13031	14	319	<LOD	31
Target Debris Field	HAT-51-1.5	1.5	<LOD	<LOD	40	20674	12	551	<LOD	51
Target Debris Field	HAT-51-2	2	20	<LOD	94	29286	14	742	<LOD	102
Target Debris Field	HAT-52-0	0	9	<LOD	<LOD	25229	35	685	<LOD	58
Target Debris Field	HAT-52-0.5	0.5	<LOD	<LOD	<LOD	23963	<LOD	463	<LOD	35
Target Debris Field	HAT-52-0.5 DUP	0.5	<LOD	<LOD	<LOD	32305	<LOD	516	<LOD	55
Target Debris Field	HAT-52-1	1	<LOD	<LOD	<LOD	24096	<LOD	532	<LOD	31
Target Debris Field	HAT-56-0	0	<LOD	<LOD	<LOD	28331	35	625	<LOD	57
Target Debris Field	HAT-56-0.5	0.5	<LOD	<LOD	<LOD	33014	<LOD	774	<LOD	73
Target Debris Field	HAT-56-0.5 DUP	0.5	<LOD	<LOD	<LOD	33849	16	772	<LOD	59
Target Debris Field	HAT-57-0	0	<LOD	<LOD	39	38796	84	528	<LOD	115
Target Debris Field	HAT-57-0.5	0.5	<LOD	<LOD	33	30745	40	460	<LOD	69
Target Debris Field	HAT-57-1	1	10	<LOD	32	38821	41	1040	<LOD	97
Target Debris Field	HAT-57-1.5	1.5	14	<LOD	<LOD	31999	20	278	<LOD	76
Target Debris Field	HAT-57-2	2	18	<LOD	<LOD	32322	24	241	<LOD	76
Target Debris Field	HAT-58-0	0	<LOD	<LOD	38	46297	54	584	<LOD	101

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Field	HAT-58-0.5	0.5	<LOD	<LOD	<LOD	30839	24	534	<LOD	82
Target Debris Field	HAT-58-0.5 DUP	0.5	<LOD	<LOD	<LOD	24454	12	461	<LOD	40
Target Debris Field	HAT-58-1	1	8	<LOD	<LOD	30512	<LOD	472	<LOD	67
Target Debris Field	HAT-58-1.5	1.5	<LOD	<LOD	<LOD	30107	15	480	<LOD	84
Target Debris Field	HAT-59-0	0	<LOD	<LOD	64	50688	66	848	<LOD	135
Target Debris Field	HAT-59-0.5	0.5	<LOD	<LOD	<LOD	42582	181	729	<LOD	105
Target Debris Field	HAT-59-0.5 DUP	0.5	<LOD	<LOD	40	29499	58	568	<LOD	83
Target Debris Field	HAT-59-1	1	<LOD	<LOD	38	31598	30	863	<LOD	80
Target Debris Field	HAT-60-0	0	<LOD	<LOD	93	34211	45	728	<LOD	97
Target Debris Field	HAT-60-0.5	0.5	<LOD	<LOD	45	27528	30	705	<LOD	60
Target Debris Field	HAT-60-1	1	<LOD	<LOD	71	28871	21	740	<LOD	88
Target Debris Field	HAT-60-1.5	1.5	12	<LOD	37	29703	13	523	<LOD	60
Target Debris Field	HAT-60-2	2	<LOD	<LOD	72	27457	22	899	<LOD	76
Target Debris Pile	HAP-1-1	1	<LOD	<LOD	29	12700	258	274	<LOD	51
Target Debris Pile	HAP-1-3	3	<LOD	<LOD	<LOD	25726	24	574	<LOD	61
Target Debris Pile	HAP-1-5	5	<LOD	<LOD	<LOD	23780	27	451	<LOD	53
Target Debris Pile	HAP-2-1	1	19	<LOD	48	20804	149	464	<LOD	58
Target Debris Pile	HAP-2-3	3	<LOD	<LOD	<LOD	5769	171	215	<LOD	33
Target Debris Pile	HAP-2-5	5	15	<LOD	46	15881	203	428	<LOD	66
Target Debris Pile	HAP-3-1	1	20	<LOD	51	20737	149	441	<LOD	61
Target Debris Pile	HAP-3-3	3	<LOD	<LOD	<LOD	2648	211	<LOD	<LOD	37
Target Debris Pile	HAP-3-5	5	<LOD	<LOD	<LOD	10199	239	264	<LOD	46
Target Debris Pile	HAP-4-1	1	17	<LOD	42	14778	360	292	<LOD	52
Target Debris Pile	HAP-4-3	3	16	<LOD	43	14849	255	355	<LOD	51
Target Debris Pile	HAP-4-5	5	<LOD	<LOD	<LOD	7657	142	182	<LOD	44
Target Debris Pile	HAP-5-1	1	<LOD	<LOD	35	13357	678	257	<LOD	48
Target Debris Pile	HAP-5-3	3	<LOD	<LOD	50	19072	123	482	<LOD	41
Target Debris Pile	HAP-5-5	5	10	<LOD	<LOD	26071	25	474	<LOD	60
Target Debris Pile	HAP-6-1	1	<LOD	<LOD	<LOD	21838	29	378	<LOD	50

Table 2-2

XRF Metals Results
Former Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Target Debris Pile	HAP-6-3	3	<LOD	<LOD	<LOD	27094	24	579	<LOD	71
Target Debris Pile	HAP-6-5	5	<LOD	<LOD	<LOD	21260	28	437	<LOD	64

Notes XRF = x-ray fluorescence
mg/kg = milligrams per kilogram
<LOD = less than laboratory detection limit

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Berm	HAB-1A-0	0	30				
Berm	HAB-1A-1	1	14				
Berm	HAB-1A-2	2	13				
Berm	HAB-1B-0	0	36				
Berm	HAB-1B-1	1	21				
Berm	HAB-1B-2	2	25				
Berm	HAB-2-0	0	60	33.6			
Berm	HAB-2-0.5	0.5	33				
Berm	HAB-2-1	1	30				
Berm	HAB-2-1.5	1.5	22				
Berm	HAB-2-2	2	17				
Berm	HAB-2A-0	0	23				
Berm	HAB-2A-1	1	19				
Berm	HAB-2A-1 DUP	1	<LOD				
Berm	HAB-2A-2	2	<LOD				
Berm	HAB-2B-0	0	34				
Berm	HAB-2B-1	1	23				
Berm	HAB-3A-0	0	36				
Berm	HAB-3A-1	1	20				
Berm	HAB-3B-0	0	16				
Berm	HAB-3B-1	1	<LOD				
Berm	HAB-3B-2	2	<LOD				
Berm	HAB-4-0 DUP	0	23				
Berm	HAB-4A-0	0	22				
Berm	HAB-4A-0 DUP	0	24				
Berm	HAB-4A-1	1	16				
Berm	HAB-4A-2	2	17				
Berm	HAB-4B-0	0	13				
Berm	HAB-4B-1	1	<LOD				
Berm	HAB-4B-2	2	15				
Berm	HAB-5A-0	0	78	37.6			
Berm	HAB-5A-1	1	24				
Berm	HAB-5A-2	2	25				
Berm	HAB-5B-0	0	14				
Berm	HAB-5B-1	1	13				
Berm	HAB-5B-2	2	15				
Berm	HAB-6-0	0	35				
Berm	HAB-6-0 DUP	0	29				
Berm	HAB-6-0.5	0.5	32				
Berm	HAB-6-1	1	42				
Berm	HAB-6-1.5	1.5	34				
Berm	HAB-6-2	2	32				
Berm	HAB-6-2.5	2.5	30				
Berm	HAB-6A-0	0	32				
Berm	HAB-6A-0 DUP	0	32				
Berm	HAB-6A-1	1	20				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Berm	HAB-6A-2	2	<LOD				
Berm	HAB-6B-0	0	20				
Berm	HAB-6B-1	1	<LOD				
Berm	HAB-6B-2	2	<LOD				
Berm	HAB-7-0	0	21				
Berm	HAB-7-0.5	0.5	28				
Berm	HAB-7-1	1	17				
Berm	HAB-7-1.5	1.5	15				
Berm	HAB-7-2	2	16				
Berm	HAB-7-2.5	2.5	12				
Berm	HAB-7A-0	0	19				
Berm	HAB-7A-1	1	18				
Berm	HAB-7A-2	2	<LOD				
Berm	HAB-7B-0	0	44				
Berm	HAB-7B-1	1	11				
Berm	HAB-7B-2	2	14				
Berm	HAB-8-0	0	18				
Berm	HAB-8-0 DUP	0	12				
Berm	HAB-8-0.5	0.5	20				
Berm	HAB-8-1	1	<LOD				
Berm	HAB-8-1.5	1.5	<LOD				
Berm	HAB-8-2	2	12				
Berm	HAB-8A-0	0	<LOD				
Berm	HAB-8A-1	1	<LOD				
Berm	HAB-8A-1 DUP	1	<LOD				
Berm	HAB-8A-2	2	<LOD				
Berm	HAB-8B-0	0	<LOD				
Berm	HAB-8B-1	1	12				
Berm	HAB-8B-2	2	<LOD				
Berm	HAB-9A-0	0	36				
Berm	HAB-9A-1	1	17				
Berm	HAB-9A-2	2	<LOD				
Berm	HAB-9B-0	0	28				
Berm	HAB-9B-1	1	31				
Berm	HAB-10-0	0	19				
Berm	HAB-10-0 DUP	0	26				
Berm	HAG-10-0 DUP	0	40				
Berm	HAB-10-0.5	0.5	<LOD				
Berm	HAB-10-1	1	16				
Berm	HAB-10-1.5	1.5	17				
Berm	HAB-10-2	2	13				
Berm	HAB-10-2.5	2.5	13				
Berm	HAB-10A-0	0	<LOD				
Berm	HAB-10A-0 DUP	0	17				
Berm	HAB-10B-0	0	24				
Berm	HAB-10B-1	1	19				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Berm	HAB-11A-0	0	20				
Berm	HAB-11A-1	1	20				
Berm	HAB-11A-2	2	13				
Berm	HAB-11B-0	0	83	44.7			
Berm	HAB-11B-1	1	<LOD				
Berm	HAB-11B-2	2	12				
Berm	HAB-12-0	0	607	567	31.0	0.664	
Berm	HAB-12-0 DUP	0	421	237	12.4	1.09	
Berm	HAB-12-0.5	0.5	114	99.7	5.89		
Berm	HAB-12-1	1	150	66.4	3.31		
Berm	HAB-12-1.5	1.5	213	148	12.7	0.157	
Berm	HAB-12-2	2	181	235	11.7	0.167	
Berm	HAB-12-2.5	2.5	26	10.5			
Berm	HAB-12A-0	0	752	731	45.9	0.494	
Berm	HAB-12A-0 DUP	0	107	86.6	3.72		
Berm	HAB-12A-1	1	68	45.2			
Berm	HAB-12B-0	0	118	56.1	2.0		
Berm	HAB-12B-1	1	37				
Berm	HAB-13-0	0	97	89.9	1.93		
Berm	HAB-13-0.5	0.5	48				
Berm	HAB-13-1	1	49				
Berm	HAB-13-1.5	1.5	91	29.7			
Berm	HAB-13-2	2	20				
Berm	HAB-13A-0	0	42				
Berm	HAB-13A-1	1	31				
Berm	HAB-13A-2	2	27				
Berm	HAB-13B-0	0	228	176	13.9	0.736	
Berm	HAB-13B-1	1	152	89.6	3.93		
Berm	HAB-13B-2	2	<LOD				
Berm	HAB-14-0	0	21				
Berm	HAB-14-0.5	0.5	12				
Berm	HAB-14-1	1	<LOD				
Berm	HAB-14-1.5	1.5	14				
Berm	HAB-14-2	2	16				
Berm	HAB-14-2.5	2.5	13				
Berm	HAB-14A-0	0	196	183	6.30	0.115	
Berm	HAB-14A-0 DUP	0	363	240	16.8	0.147	
Berm	HAB-14A-1	1	66	12.9			
Berm	HAB-14A-2	2	31				
Berm	HAB-14B-0	0	111	82.6	4.26		
Berm	HAB-14B-1	1	48				
Berm	HAB-14B-2	2	23				
Berm	HAB-15-0	0	41				
Berm	HAB-15-0 DUP	0	16				
Berm	HAB-15-0.5	0.5	<LOD				
Berm	HAB-15-1	1	<LOD				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Berm	HAB-15-1.5	1.5	17				
Berm	HAB-15-2	2	<LOD				
Berm	HAB-15-2.5	2.5	<LOD				
Berm	HAB-15A-0	0	16				
Berm	HAB-15A-1	1	15				
Berm	HAB-15B-0	0	33				
Berm	HAB-15B-1	1	<LOD				
Berm	HAB-15B-2	2	<LOD				
Berm	HAB-16-0	0	19				
Berm	HAB-16-0 DUP	0	16				
Berm	HAB-16-0.5	0.5	16				
Berm	HAB-16-1	1	13				
Berm	HAB-16-1.5	1.5	14				
Berm	HAB-16-2	2	<LOD				
Berm	HAB-16-2.5	2.5	26				
Berm	HAB-16A-0	0	30				
Berm	HAB-16A-0 DUP	0	15				
Berm	HAB-16A-1	1	<LOD				
Berm	HAB-16A-2	2	<LOD				
Berm	HAB-16B-0	0	57	27.8			
Berm	HAB-16B-1	1	<LOD				
Berm	HAB-17A-0	0	37				
Berm	HAB-17A-1	1	20				
Berm	HAB-17A-2	2	21				
Berm	HAB-17B-0	0	23				
Berm	HAB-17B-1	1	<LOD				
Berm	HAB-17B-2	2	<LOD				
Berm	HAB-18A-0	0	23				
Berm	HAB-18A-1	1	20				
Berm	HAB-18A-2	2	13				
Berm	HAB-18B-0	0	36				
Berm	HAB-18B-1	1	22				
Berm	HAB-18B-2	2	17				
Berm	HAB-19-0	0	25				
Berm	HAB-19-0.5	0.5	26				
Berm	HAB-19-0.5 DUP	0.5	17				
Berm	HAB-19-1	1	30				
Berm	HAB-19-1.5	1.5	16				
Berm	HAB-19-2	2	17				
Berm	HAB-19-2.5	2.5	15				
Berm	HAB-19-3	3	15				
Berm	HAB-19-3.5	3.5	25				
Berm	HAB-19-4	4	21				
Berm	HAB-19-4.5	4.5	17				
Berm	HAB-19-5	5	20				
Berm	HAB-19-5.5	5.5	23				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Berm	HAB-19A-0	0	21				
Berm	HAB-19A-1	1	25				
Berm	HAB-19A-2	2	29				
Berm	HAB-19B-0	0	<LOD				
Berm	HAB-19B-1	1	<LOD				
Berm	HAB-19B-2	2	<LOD				
Berm	HAB-20A-0	0	25				
Berm	HAB-20A-1	1	27				
Berm	HAB-20A-2	2	13				
Berm	HAB-20B-0	0	17				
Berm	HAB-20B-0 DUP	0	18				
Berm	HAB-20B-1	1	16				
Berm	HAB-20B-2	2	15				
Berm	HAB-21A-0	0	24				
Berm	HAB-21A-1	1	13				
Berm	HAB-21A-2	2	13				
Berm	HAB-21B-0	0	30				
Berm	HAB-21B-1	1	13				
Berm	HAB-21B-2	2	19				
Berm	HAB-22A-0	0	15				
Berm	HAB-22A-1	1	14				
Berm	HAB-22A-2	2	16				
Berm	HAB-22B-0	0	25				
Berm	HAB-22B-0 DUP	0	27				
Berm	HAB-22B-1	1	18				
Berm	HAB-22B-2	2	17				
Berm	HAB-23A-0	0	<LOD				
Berm	HAB-23A-1	1	13				
Berm	HAB-23A-2	2	<LOD				
Berm	HAB-23B-0	0	18				
Berm	HAB-23B-1	1	21				
Berm	HAB-23B-2	2	19				
Berm	HAB-24A-0	0	<LOD				
Berm	HAB-24A-1	1	19				
Berm	HAB-24A-2	2	12				
Berm	HAB-24B-0	0	27				
Berm	HAB-24B-1	1	28				
Berm	HAB-24B-2	2	<LOD				
Berm	HAT-53-0	0	14				
Berm	HAT-53-0.5	0.5	28				
Berm	HAT-53-1	1	<LOD				
Berm	HAT-53-1.5	1.5	13				
Berm	HAT-53-2	2	15				
Berm	HAT-54-0	0	187	93.3	7.29		
Berm	HAT-54-0.5	0.5	34				
Berm	HAT-54-0.5 DUP	0.5	76	47.1			

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Berm	HAT-54-1	1	51	32.1			
Berm	HAT-54-1.5	1.5	148	69.0	8.39		
Berm	HAT-54-2	2	66	45.5			
Berm	HAT-55-0	0	20				
Berm	HAT-55-0.5	0.5	20				
Berm	HAT-55-1	1	19				
Berm	HAT-55-1.5	1.5	21				
Berm	TB-11-0	0	19				
Berm	TB-11-1	1	<LOD				
Berm	TB-11-2	2	16				
Berm	TB-11-3	3	15				
Berm	TB-11-4	4	<LOD				
Berm	TB-11-5	5	<LOD				
Berm	TB-11-5 DUP	5	15				
Berm	TB-17-0	0	96	112	2.07	ND	
Berm	TB-17-1	1	36				
Berm	TB-17-2	2	26				
Berm	TB-17-3	3	21				
Berm	TB-17-4	4	20				
Berm	TB-17-5	5	18				
Berm	TB-17-6	6	20				
Berm	TB-17-7	7	39				
Berm	TB-17-8	8	14				
Berm	TB-17-9	9	25				
Berm	TB-17-9 DUP	9	32				
Berm	TB-17-10	10	19				
Berm	TB-18-0	0	24				
Berm	TB-18-1	1	20				
Berm	TB-18-2	2	13				
Berm	TB-18-3	3	20				
Berm	TB-18-4	4	20				
Berm	TB-18-5	5	17				
Berm	TB-18-6	6	26				
Berm	TB-18-7	7	30				
Median	HAG-1-0	0	55	70.6	1.02		
Median	HAG-1-0.5	0.5	35				
Median	HAG-1-1	1	26				
Median	HAG-1-1.5	1.5	31				
Median	HAG-1-2	2	17				
Median	HAG-2-0	0	50	38.4			
Median	HAG-2-0 DUP	0	33				
Median	HAG-2-0.5	0.5	25				
Median	HAG-2-1	1	36				
Median	HAG-2-1.5	1.5	24				
Median	HAG-2-2	2	39				
Median	HAG-3-0	0	45				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Median	HAG-3-0.5	0.5	29				
Median	HAG-3-1	1	29				
Median	HAG-3-1.5	1.5	30				
Median	HAG-3-2	2	22				
Median	HAG-4-0	0	40				
Median	HAG-4-0 DUP	0	33				
Median	HAG-4-0.5	0.5	17				
Median	HAG-4-1	1	16				
Median	HAG-4-1.5	1.5	13				
Median	HAG-4-2	2	50	23.3			
Median	HAG-5-0	0	54	30.5			
Median	HAG-5-0.5	0.5	20				
Median	HAG-5-1	1	23				
Median	HAG-6-0	0	45				
Median	HAG-6-0 DUP	0	44				
Median	HAG-6-0.5	0.5	15				
Median	HAG-6-1	1	22				
Median	HAG-6-1.5	1.5	<LOD				
Median	HAG-6-2	2	24				
Median	HAG-7-0	0	49				
Median	HAG-7-0.5	0.5	32				
Median	HAG-7-1	1	19				
Median	HAG-7-1.5	1.5	24				
Median	HAG-7-2	2	26				
Median	HAG-8-0	0	40				
Median	HAG-8-0 DUP	0	42				
Median	HAG-8-0.5	0.5	34				
Median	HAG-8-1	1	22				
Median	HAG-8-1.5	1.5	21				
Median	HAG-8-2	2	25				
Median	HAG-9-0	0	33				
Median	HAG-9-0.5	0.5	15				
Median	HAG-9-1	1	21				
Median	HAG-9-1.5	1.5	19				
Median	HAG-9-2	2	26				
Median	HAG-10-0	0	55	29.3			
Median	HAG-10-0.5	0.5	36				
Median	HAG-10-1	1	29				
Median	HAG-10-1.5	1.5	22				
Median	HAG-10-2	2	19				
Median	HAG-11-0	0	53	76.2	1.49		
Median	HAG-11-0.5	0.5	28				
Median	HAG-11-1	1	24				
Median	HAG-11-1.5	1.5	26				
Median	HAG-11-2	2	19				
Otay River	HA-1-0	0	27				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Otay River	HA-1-0 DUP	0	113	63.4	1.05		
Otay River	HA-1-0.5	0.5	41				
Otay River	HA-1-1	1	35				
Otay River	HA-1-1.5	1.5	47				
Otay River	HA-2-0	0	25				
Otay River	HA-2-0 DUP	0	<LOD				
Otay River	HA-2-0.5	0.5	15				
Otay River	HA-2-1	1	14				
Otay River	HA-2-1.5	1.5	12				
Otay River	HA-2-2	2	<LOD				
Otay River	HA-3-0	0	30				
Otay River	HA-3-0 DUP	0	13				
Otay River	HA-3-0.5	0.5	<LOD				
Otay River	HA-3-1	1	<LOD				
Otay River	HA-3-1.5	1.5	11				
Otay River	HA-4-0	0	16				
Otay River	HA-5-0	0	25				
Otay River	HA-5-0.5	0.5	35				
Otay River	HA-5-1	1	22				
Otay River	HA-5-1.5	1.5	29				
Otay River	HA-5-2	2	24				
Otay River	HA-6-0	0	17				
Otay River	HA-6-0.5	0.5	<LOD				
Otay River	HA-6-1	1	<LOD				
Otay River	HA-6-1.5	1.5	17				
Otay River	HA-6-2	2	<LOD				
Otay River	HA-7-0	0	18				
Otay River	HA-7-0.5	0.5	<LOD				
Otay River	HA-7-1	1	13				
Otay River	HA-7-1.5	1.5	17				
Otay River	HA-7-2	2	14				
Otay River	HA-8-0	0	26				
Otay River	HA-8-0 DUP	0	<LOD				
Otay River	HA-8-0.5	0.5	40				
Otay River	HA-8-1	1	41				
Otay River	HA-8-1.5	1.5	27				
Otay River	HA-8-2	2	13				
Otay River	HA-9-0	0	25				
Otay River	HA-9-0.5	0.5	31				
Otay River	HA-9-1	1	24				
Otay River	HA-9-1.5	1.5	29				
Otay River	HA-9-2	2	21				
Otay River	HA-10-0	0	19				
Otay River	HA-10-0 DUP	0	24				
Otay River	HA-10-0.5	0.5	<LOD				
Otay River	HA-10-1	1	<LOD				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Otay River	HA-10-1.5	1.5	<LOD				
Otay River	HA-10-2	2	15				
Otay River	HA-11-0	0	31				
Otay River	HA-11-0 DUP	0	38				
Otay River	HA-11-0.5	0.5	15				
Otay River	HA-11-1	1	18				
Otay River	HA-12-0	0	<LOD				
Otay River	HA-12-0 DUP	0	15				
Otay River	HA-12-0.5	0.5	20				
Otay River	HA-12-1	1	12				
Otay River	HA-12-1.5	1.5	13				
Otay River	HA-12-2	2	19				
Otay River	HA-13-0	0	30				
Otay River	HA-13-0.5	0.5	18				
Otay River	HA-13-1	1	20				
Otay River	HA-13-1.5	1.5	12				
Otay River	HA-13-2	2	16				
Otay River	HA-14-0	0	13				
Otay River	HA-14-0.5	0.5	15				
Otay River	HA-14-1	1	<LOD				
Otay River	HA-14-1.5	1.5	19				
Otay River	HA-14-2	2	<LOD				
Otay River	HA-15-0	0	18				
Otay River	HA-15-0.5	0.5	19				
Otay River	HA-15-1	1	21				
Otay River	HA-15-1.5	1.5	18				
Otay River	HA-15-2	2	16				
Otay River	HA-16-0	0	15				
Otay River	HA-16-0.5	0.5	16				
Otay River	HA-16-1	1	19				
Otay River	HA-16-1.5	1.5	16				
Otay River	HA-16-2	2	12				
Otay River	HA-17-0	0	31				
Otay River	HA-17-0.5	0.5	16				
Otay River	HA-17-1	1	27				
Otay River	HA-17-1.5	1.5	27				
Otay River	HA-17-2	2	19				
Otay River	HA-18-0	0	22				
Otay River	HA-18-0 DUP	0	18				
Otay River	HA-18-0.5	0.5	14				
Otay River	HA-18-1	1	32				
Otay River	HA-18-1.5	1.5	17				
Otay River	HA-19-0	0	12				
Otay River	HA-19-0.5	0.5	24				
Otay River	HA-19-1	1	24				
Otay River	HA-19-1.5	1.5	25				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Otay River	HA-19-2	2	29				
Otay River	HA-20-0	0	<LOD				
Otay River	HA-20-0.5	0.5	16				
Otay River	HA-21-0	0	50	34.0			
Otay River	HA-21-0 DUP	0	27				
Otay River	HA-21-0.5	0.5	15				
Otay River	HA-21-1	1	22				
Otay River	HA-22-0	0	55	36.6			
Otay River	HA-22-0.5	0.5	<LOD				
Otay River	HA-22-1	1	25				
Otay River	HA-22-1.5	1.5	15				
Otay River	HA-22-2	2	22				
Otay River	HA-23-0	0	22				
Otay River	HA-23-0 DUP	0	20				
Otay River	HA-23-0.5	0.5	<LOD				
Otay River	HA-23-1	1	15				
Otay River	HA-24-0	0	<LOD				
Otay River	HA-24-0.5	0.5	11				
Otay River	HA-24-1	1	<LOD				
Otay River	HA-24-1.5	1.5	12				
Otay River	HA-25-0	0	<LOD				
Otay River	HA-25-0 DUP	0	20				
Otay River	HA-25-0.5	0.5	27				
Otay River	HA-26-0	0	18				
Otay River	HA-26-0.5	0.5	17				
Otay River	HA-26-1	1	20				
Otay River	HA-26-1.5	1.5	19				
Otay River	HA-26-2	2	12				
Otay River	HA-27-0	0	25				
Otay River	HA-27-0.5	0.5	<LOD				
Otay River	HA-27-1	1	22				
Otay River	HA-27-1.5	1.5	19				
Otay River	HA-27-2	2	24				
Otay River	HA-28-0	0	27				
Otay River	HA-28-0 DUP	0	18				
Otay River	HA-28-0.5	0.5	25				
Otay River	HA-28-1	1	<LOD				
Otay River	HA-29-0	0	21				
Otay River	HA-29-0 DUP	0	25				
Otay River	HA-29-0.5	0.5	<LOD				
Otay River	HA-29-1	1	14				
Otay River	HA-29-1.5	1.5	13				
Otay River	HA-30-0	0	24				
Otay River	HA-30-0.5	0.5	24				
Otay River	HA-30-1	1	20				
Otay River	HA-30-1.5	1.5	33				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Otay River	HA-31-0	0	17				
Otay River	HA-31-0.5	0.5	20				
Otay River	HA-31-1	1	16				
Otay River	HA-31-1.5	1.5	18				
Otay River	HA-31-2	2	21				
Otay River	HA-32-0	0	27				
Otay River	HA-32-0.5	0.5	20				
Otay River	HA-33-0	0	22				
Otay River	HA-33-0.5	0.5	12				
Otay River	HA-33-1	1	14				
Otay River	HA-33-1.5	1.5	<LOD				
Otay River	HA-34-0	0	17				
Otay River	HA-34-0 DUP	0	14				
Otay River	HA-34-0.5	0.5	<LOD				
Otay River	HA-34-1	1	16				
Otay River	HA-34-1.5	1.5	12				
Otay River	HA-35-0	0	35				
Otay River	HA-35-0 DUP	0	33				
Otay River	HA-35-0.5	0.5	<LOD				
Otay River	HA-35-1	1	<LOD				
Otay River	HA-36-0	0	22				
Otay River	HA-36-0.5	0.5	22				
Otay River	HA-36-1	1	28				
Otay River	HA-36-1.5	1.5	22				
Otay River	HA-36-2	2	19				
Otay River	HA-37-0	0	17				
Otay River	HA-37-0.5	0.5	<LOD				
Otay River	HA-37-1	1	16				
Otay River	HA-37-1.5	1.5	<LOD				
Otay River	HA-37-2	2	18				
Otay River	HA-38-0	0	14				
Otay River	HA-38-0 DUP	0	21				
Otay River	HA-38-0.5	0.5	14				
Otay River	HA-38-1	1	20				
Otay River	HA-38-1.5	1.5	17				
Otay River	HA-38-2	2	<LOD				
Otay River	HA-39-0	0	29				
Otay River	HA-39-0.5	0.5	18				
Otay River	HA-39-1	1	16				
Otay River	HA-39-1.5	1.5	23				
Otay River	HA-39-2	2	32				
Otay River	HA-40-0	0	19				
Otay River	HA-40-0 DUP	0	23				
Otay River	HA-40-0.5	0.5	<LOD	125	3.26	ND	
Otay River	HA-41-0	0	25				
Otay River	HA-41-0.5	0.5	20				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Otay River	HA-41-1	1	23				
Otay River	HA-41-1.5	1.5	33				
Otay River	HA-41-2	2	17				
Otay River	HA-42-0	0	15				
Otay River	HA-43-0	0	19				
Otay River	HA-43-0 DUP	0	21				
Otay River	HA-43-0.5	0.5	23				
Otay River	HA-43-1	1	16				
Otay River	HA-43-1.5	1.5	22				
Otay River	HA-43-2	2	13				
Otay River	HA-44-0	0	32				
Otay River	HA-44-0.5	0.5	25				
Otay River	HA-44-1	1	23.3				
Otay River	HA-44-1.5	1.5	<LOD				
Otay River	HA-44-2	2	16.8				
Otay River	HA-45-0	0	32				
Otay River	HA-45-0 DUP	0	27				
Otay River	HA-45-0.5	0.5	25				
Otay River	HA-45-1	1	32				
Otay River	HA-45-1.5	1.5	28				
Otay River	HA-45-2	2	21				
Otay River	HA-46-0	0	<LOD				
Otay River	HA-46-0.5	0.5	<LOD				
Otay River	HA-46-1	1	<LOD				
Otay River	HA-46-1.5	1.5	<LOD				
Otay River	HA-46-2	2	<LOD				
Otay River	HA-47-0	0	25				
Otay River	HA-47-0.5	0.5	18				
Otay River	HA-47-1	1	23				
Otay River	HA-48-0	0	19				
Otay River	HA-48-0.5	0.5	<LOD				
Otay River	HA-48-1	1	12				
Otay River	HA-48-1.5	1.5	13				
Otay River	HA-48-2	2	26				
Otay River	HA-49-0	0	23				
Otay River	HA-49-0 DUP	0	23				
Otay River	HA-49-0.5	0.5	17				
Otay River	HA-49-1	1	32				
Otay River	HA-50-0	0	10				
Sewer	TS-1-1	1	14				
Sewer	TS-1-3	3	14				
Sewer	TS-1-5	5	13				
Sewer	TS-1-6.5	6.5	17				
Sewer	TS-2-1	1	30				
Sewer	TS-2-3	3	21				
Sewer	TS-2-5	5	<LOD				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Sewer	TS-2-7.5	7.5	14				
Sewer	TS-3-1	1	21				
Sewer	TS-3-3	3	23				
Sewer	TS-3-3 DUP	3	19				
Sewer	TS-3-5	5	20				
Sewer	TS-3-6.5	6.5	12				
Sewer	TS-4-1	1	25				
Sewer	TS-4-3	3	13				
Sewer	TS-4-5	5	18				
Sewer	TS-4-6.5	6.5	<LOD				
Sewer	TS-5-1	1	13				
Sewer	TS-5-1 DUP	1	15				
Sewer	TS-5-3	3	16				
Sewer	TS-6-1	1	26				
Sewer	TS-6-3	3	16				
Sewer	TS-6-5	5	13				
Sewer	TS-6-6	6	14				
Sewer	TS-7-1	1	16				
Sewer	TS-7-3	3	13				
Sewer	TS-7-5	5	18				
Sewer	TS-7-6	6	<LOD				
Sewer	TS-8-1	1	152	195	5.87	ND	
Sewer	TS-8-3	3	28				
Sewer	TS-8-5	5	13				
Sewer	TS-8-7.5	7.5	16				
Sewer	TS-9-1	1	64	187	4.37	ND	
Sewer	TS-9-1 DUP	1	77	67.9	2.87		
Sewer	TS-9-3	3	43				
Sewer	TS-10-1	1	35				
Sewer	TS-10-3	3	97	85.9	5.30		
Sewer	TS-10-4	4	106	121	9.15	ND	
Sewer	TS-11-1	1	61	56.6	2.41		
Sewer	TS-11-3	3	78	88.8	3.88		
Sewer	TS-11-5	5	32				
Sewer	TS-11-7.5	7.5	52	90.6	1.66		
Sewer	TS-12-1	1	125	89.6	2.48		
Sewer	TS-12-3	3	191	197	9.74	ND	
Sewer	TS-12-3 DUP	3	385	1470	67.0	1.15	
Sewer	TS-12-4	4	233	630	23.5	ND	
Sewer	TS-13-1	1	49				
Sewer	TS-13-3	3	34				
Sewer	TS-14-1	1	563	53.3	3.97		
Sewer	TS-14-3	3	28				
Sewer	TS-14-4	4	29				
Sewer	TS-15-1	1	38				
Sewer	TS-15-3	3	21				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Sewer	TS-15-5	5	15				
Sewer	TS-16-1	1	24				
Sewer	TS-16-1 DUP	1	36				
Sewer	TS-16-3	3	25				
Sewer	TS-17-1	1	22				
Sewer	TS-17-3	3	25				
Sewer	TS-18-1	1	15				
Sewer	TS-18-3	3	13				
Sewer	TS-19-1	1	21				
Sewer	TS-19-3	3	17				
Sewer	TS-19-3 DUP	3	21				
Sewer	TS-19-4	4	22				
Sewer	TS-20-1	1	18				
Sewer	TS-20-3	3	<LOD				
Sewer	TS-20-5	5	20				
Sewer	TS-21-1	1	29				
Sewer	TS-21-3	3	14				
Sewer	TS-21-4	4	19				
Sewer	TS-22-1	1	20				
Sewer	TS-22-3	3	16				
Sewer	TS-22-4.5	4.5	19				
Shooting Range Field	HAF-1-0	0	37				
Shooting Range Field	HAF-1-0.5	0.5	32				
Shooting Range Field	HAF-1-1	1	37				
Shooting Range Field	HAF-1-1.5	1.5	57	39.1			
Shooting Range Field	HAF-1-2	2	34				
Shooting Range Field	HAF-2-0	0	23				
Shooting Range Field	HAF-2-0 DUP	0	22				
Shooting Range Field	HAF-2-0.5	0.5	24				
Shooting Range Field	HAF-2-1	1	12				
Shooting Range Field	HAF-2-1.5	1.5	12				
Shooting Range Field	HAF-2-2	2	15				
Shooting Range Field	HAF-3-0	0	30				
Shooting Range Field	HAF-3-0.5	0.5	22				
Shooting Range Field	HAF-3-1	1	18				
Shooting Range Field	HAF-3-1.5	1.5	14				
Shooting Range Field	HAF-3-2	2	<LOD				
Shooting Range Field	HAF-23-0	0	<LOD				
Shooting Range Field	HAF-23-0.5	0.5	<LOD				
Shooting Range Field	HAF-23-1	1	17				
Shooting Range Field	HAF-23-1.5	1.5	27				
Shooting Range Field	HAF-23-2	2	16				
Shooting Range Field	HAF-24-0	0	29				
Shooting Range Field	HAF-24-0 DUP	0	26				
Shooting Range Field	HAF-24-0.5	0.5	<LOD				
Shooting Range Field	HAF-24-1.5	1.5	<LOD				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-24-2	2	13				
Shooting Range Field	HAF-44-0	0	36				
Shooting Range Field	HAF-44-0.5	0.5	28				
Shooting Range Field	HAF-44-1.5	1.5	14				
Shooting Range Field	HAF-44-2	2	20				
Shooting Range Field	HAF-45-0	0	15				
Shooting Range Field	HAF-45-0 DUP	0	21				
Shooting Range Field	HAF-45-0.5	0.5	15				
Shooting Range Field	HAF-45-1	1	17				
Shooting Range Field	HAF-45-1.5	1.5	22				
Shooting Range Field	HAF-45-2	2	12				
Shooting Range Field	HAF-65-0	0	23				
Shooting Range Field	HAF-65-0 DUP	0	31				
Shooting Range Field	HAF-65-0.5	0.5	15				
Shooting Range Field	HAF-65-1	1	19				
Shooting Range Field	HAF-65-1.5	1.5	17				
Shooting Range Field	HAF-65-2	2	<LOD				
Shooting Range Field	HAF-66-0	0	37				
Shooting Range Field	HAF-66-0.5	0.5	36				
Shooting Range Field	HAF-66-1	1	27				
Shooting Range Field	HAF-66-1.5	1.5	24				
Shooting Range Field	HAF-66-2	2	24				
Shooting Range Field	HAF-67-0	0	28				
Shooting Range Field	HAF-67-0 DUP	0	28				
Shooting Range Field	HAF-67-0.5	0.5	17				
Shooting Range Field	HAF-67-1	1	15				
Shooting Range Field	HAF-67-1.5	1.5	16				
Shooting Range Field	HAF-67-2	2	23				
Shooting Range Field	HAF-68-0	0	25				
Shooting Range Field	HAF-68-0.5	0.5	<LOD				
Shooting Range Field	HAF-68-1	1	14				
Shooting Range Field	HAF-68-1.5	1.5	18				
Shooting Range Field	HAF-68-2	2	14				
Shooting Range Field	HAF-86-0	0	56				
Shooting Range Field	HAF-86-0.5	0.5	22				
Shooting Range Field	HAF-86-1	1	22				
Shooting Range Field	HAF-86-1.5	1.5	<LOD				
Shooting Range Field	HAF-86-2	2	<LOD				
Shooting Range Field	HAF-87-0	0	26				
Shooting Range Field	HAF-87-0.75	0.75	19				
Shooting Range Field	HAF-87-1	1	19				
Shooting Range Field	HAF-87-1.5	1.5	16				
Shooting Range Field	HAF-87-2	2	20				
Shooting Range Field	HAF-88-0	0	22				
Shooting Range Field	HAF-88-0 DUP	0	<LOD				
Shooting Range Field	HAF-88-0.5	0.5	<LOD				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-88-1	1	<LOD				
Shooting Range Field	HAF-88-1.5	1.5	20				
Shooting Range Field	HAF-88-2	2	22				
Shooting Range Field	HAF-89-0	0	358	331	16.0	0.82	
Shooting Range Field	HAF-89-0.5	0.5	44				
Shooting Range Field	HAF-89-1	1	14				
Shooting Range Field	HAF-89-1.5	1.5	13				
Shooting Range Field	HAF-89-2	2	27				
Shooting Range Field	HAF-90-0	0	51	22.4			
Shooting Range Field	HAF-90-0 DUP	0	16				
Shooting Range Field	HAF-90-0.5	0.5	17				
Shooting Range Field	HAF-90-1	1	<LOD				
Shooting Range Field	HAF-90-1.5	1.5	<LOD				
Shooting Range Field	HAF-90-2	2	19				
Shooting Range Field	HAF-91-0	0	109	94.8	2.19		
Shooting Range Field	HAF-91-0 DUP	0	55	93.3	1.77		
Shooting Range Field	HAF-91-0.5	0.5	14				
Shooting Range Field	HAF-91-1	1	<LOD				
Shooting Range Field	HAF-91-1.5	1.5	14				
Shooting Range Field	HAF-91-2	2	25				
Shooting Range Field	HAF-92-0	0	359	413	7.85	0.268	
Shooting Range Field	HAF-92-0.5	0.5	31				
Shooting Range Field	HAF-92-1	1	13				
Shooting Range Field	HAF-92-1.5	1.5	12				
Shooting Range Field	HAF-92-2	2	14				
Shooting Range Field	HAF-101-0	0	26				
Shooting Range Field	HAF-101-0.5	0.5	21				
Shooting Range Field	HAF-101-1	1	<LOD				
Shooting Range Field	HAF-101-1.5	1.5	14				
Shooting Range Field	HAF-101-2	2	18				
Shooting Range Field	HAF-102-0	0	21				
Shooting Range Field	HAF-102-0 DUP	0	29				
Shooting Range Field	HAF-102-0.5	0.5	20				
Shooting Range Field	HAF-102-1	1	14				
Shooting Range Field	HAF-102-1.5	1.5	20				
Shooting Range Field	HAF-102-2	2	17				
Shooting Range Field	HAF-103-0	0	19				
Shooting Range Field	HAF-103-0.5	0.5	26				
Shooting Range Field	HAF-103-1	1	14				
Shooting Range Field	HAF-103-1.5	1.5	16				
Shooting Range Field	HAF-103-2	2	17				
Shooting Range Field	HAF-104-0	0	21				
Shooting Range Field	HAF-104-0 DUP	0	22				
Shooting Range Field	HAF-104-0.5	0.5	19				
Shooting Range Field	HAF-104-1	1	18				
Shooting Range Field	HAF-104-1.5	1.5	16				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-104-2	2	<LOD				
Shooting Range Field	HAF-108-0	0	45				
Shooting Range Field	HAF-108-0.5	0.5	34				
Shooting Range Field	HAF-108-1	1	27				
Shooting Range Field	HAF-108-1.5	1.5	25				
Shooting Range Field	HAF-108-2	2	16				
Shooting Range Field	HAF-109-0	0	51	28.4			
Shooting Range Field	HAF-109-0.5	0.5	20				
Shooting Range Field	HAF-109-1	1	20				
Shooting Range Field	HAF-109-1.5	1.5	16				
Shooting Range Field	HAF-109-2	2	19				
Shooting Range Field	HAF-110-0	0	41				
Shooting Range Field	HAF-110-0 DUP	0	31				
Shooting Range Field	HAF-110-0.5	0.5	23				
Shooting Range Field	HAF-110-1	1	19				
Shooting Range Field	HAF-110-1.5	1.5	20				
Shooting Range Field	HAF-110-2	2	24				
Shooting Range Field	HAF-111-0	0	24				
Shooting Range Field	HAF-111-0 DUP	0	19				
Shooting Range Field	HAF-111-0.5	0.5	21				
Shooting Range Field	HAF-111-1	1	16				
Shooting Range Field	HAF-111-1.5	1.5	18				
Shooting Range Field	HAF-111-2	2	21				
Shooting Range Field	HAF-112-0	0	122	158	2.41	ND	
Shooting Range Field	HAF-112-0.5	0.5	17				
Shooting Range Field	HAF-112-1	1	22				
Shooting Range Field	HAF-112-1.5	1.5	21				
Shooting Range Field	HAF-112-2	2	20				
Shooting Range Field	HAF-113-0	0	428	636	22.3		
Shooting Range Field	HAF-113-0 DUP	0	122	59.0	3.71		
Shooting Range Field	HAF-113-0.5	0.5	14				
Shooting Range Field	HAF-113-1	1	16				
Shooting Range Field	HAF-113-1.5	1.5	16				
Shooting Range Field	HAF-113-2	2	<LOD				
Shooting Range Field	HAF-114-0	0	275	344	28.5	0.333	
Shooting Range Field	HAF-114-0.5	0.5	69	58.5	2.91		
Shooting Range Field	HAF-114-1	1	42				
Shooting Range Field	HAF-114-1.5	1.5	221	200	4.20	ND	
Shooting Range Field	HAF-114-2	2	207	186	12.4	0.219	
Shooting Range Field	HAF-114-2.5	2.5	199	105	4.34	ND	
Shooting Range Field	HAF-122-0	0	34				
Shooting Range Field	HAF-122-0 DUP	0	19				
Shooting Range Field	HAF-122-0.5	0.5	13				
Shooting Range Field	HAF-122-1	1	28				
Shooting Range Field	HAF-122-1.5	1.5	20				
Shooting Range Field	HAF-122-2	2	27				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-123-0	0	24				
Shooting Range Field	HAF-123-0 DUP	0	24				
Shooting Range Field	HAF-123-0.5	0.5	14				
Shooting Range Field	HAF-123-1	1	24				
Shooting Range Field	HAF-123-1.5	1.5	22				
Shooting Range Field	HAF-123-2	2	19				
Shooting Range Field	HAF-124-0	0	28				
Shooting Range Field	HAF-124-0 DUP	0	17				
Shooting Range Field	HAF-124-0.5	0.5	24				
Shooting Range Field	HAF-124-1	1	18				
Shooting Range Field	HAF-124-1.5	1.5	16				
Shooting Range Field	HAF-124-2	2	17				
Shooting Range Field	HAF-125-0	0	23				
Shooting Range Field	HAF-125-0.5	0.5	23				
Shooting Range Field	HAF-125-1	1	16				
Shooting Range Field	HAF-125-1.5	1.5	16				
Shooting Range Field	HAF-125-2	2	26				
Shooting Range Field	HAF-129-0	0	41				
Shooting Range Field	HAF-129-0.5	0.5	25				
Shooting Range Field	HAF-129-1	1	21				
Shooting Range Field	HAF-129-1.5	1.5	22				
Shooting Range Field	HAF-129-2	2	14				
Shooting Range Field	HAF-130-0	0	42				
Shooting Range Field	HAF-130-0.75	0.75	36				
Shooting Range Field	HAF-130-1	1	28				
Shooting Range Field	HAF-130-1.5	1.5	26				
Shooting Range Field	HAF-130-2	2	18				
Shooting Range Field	HAF-131-0	0	93	58.9	3.14		
Shooting Range Field	HAF-131-0 DUP	0	47				
Shooting Range Field	HAF-131-0.5	0.5	22				
Shooting Range Field	HAF-131-1	1	23				
Shooting Range Field	HAF-131-1.5	1.5	16				
Shooting Range Field	HAF-131-2	2	28				
Shooting Range Field	HAF-132-0	0	404	349	13.4	0.218	
Shooting Range Field	HAF-132-0.5	0.5	79	92.0	1.13		
Shooting Range Field	HAF-132-0.5 DUP	0.5	112	111	3.68	0.658	
Shooting Range Field	HAF-132-1	1	27				
Shooting Range Field	HAF-132-1.5	1.5	28				
Shooting Range Field	HAF-132-2	2	23				
Shooting Range Field	HAF-133-0	0	429	307	6.78	0.268	
Shooting Range Field	HAF-133-0.5	0.5	38				
Shooting Range Field	HAF-133-1	1	23				
Shooting Range Field	HAF-133-1.5	1.5	21				
Shooting Range Field	HAF-133-2	2	19				
Shooting Range Field	HAF-134-0	0	28				
Shooting Range Field	HAF-134-0 DUP	0	42				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-134-0.5	0.5	16				
Shooting Range Field	HAF-134-1	1	22				
Shooting Range Field	HAF-134-1.5	1.5	<LOD				
Shooting Range Field	HAF-134-2	2	13				
Shooting Range Field	HAF-135-0	0	28				
Shooting Range Field	HAF-135-0.5	0.5	20				
Shooting Range Field	HAF-135-1	1	19				
Shooting Range Field	HAF-135-1.5	1.5	29				
Shooting Range Field	HAF-135-2	2	20				
Shooting Range Field	HAF-136-0	0	38				
Shooting Range Field	HAF-136-0 DUP	0	15				
Shooting Range Field	HAF-136-0.5	0.5	17				
Shooting Range Field	HAF-136-1	1	29				
Shooting Range Field	HAF-136-1.5	1.5	27				
Shooting Range Field	HAF-136-2	2	21				
Shooting Range Field	HAF-137-0	0	326	272	10.1		
Shooting Range Field	HAF-137-0 DUP	0	20				
Shooting Range Field	HAF-137-0.5	0.5	<LOD				
Shooting Range Field	HAF-137-1	1	32				
Shooting Range Field	HAF-137-1.5	1.5	20				
Shooting Range Field	HAF-137-2	2	29				
Shooting Range Field	HAF-138-0	0	1002	964	53.5	3.55	
Shooting Range Field	HAF-138-0.5	0.5	20				
Shooting Range Field	HAF-138-1	1	17				
Shooting Range Field	HAF-138-1.5	1.5	18				
Shooting Range Field	HAF-138-2	2	23				
Shooting Range Field	HAF-139-0	0	265	401	21.5	0.701	
Shooting Range Field	HAF-139-0.5	0.5	27				
Shooting Range Field	HAF-139-1	1	21				
Shooting Range Field	HAF-139-1.5	1.5	22				
Shooting Range Field	HAF-139-2	2	12				
Shooting Range Field	HAF-140-0	0	181				
Shooting Range Field	HAF-140-0 DUP	0	26				
Shooting Range Field	HAF-140-0.5	0.5	43				
Shooting Range Field	HAF-140-1	1	17				
Shooting Range Field	HAF-140-1.5	1.5	28				
Shooting Range Field	HAF-140-2	2	20				
Shooting Range Field	HAF-141-0	0	821	977	24.7	1.91	
Shooting Range Field	HAF-141-0.5	0.5	1458	2560	135	3.51	
Shooting Range Field	HAF-141-1	1	934	1690	114	7.08	
Shooting Range Field	HAF-141-1.5	1.5	31				
Shooting Range Field	HAF-141-2	2	23				
Shooting Range Field	HAF-142-0	0	56	41.1			
Shooting Range Field	HAF-142-0 DUP	0	13				
Shooting Range Field	HAF-142-0.5	0.5	24				
Shooting Range Field	HAF-142-1	1	15				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-142-1.5	1.5	15				
Shooting Range Field	HAF-142-2	2	22				
Shooting Range Field	HAF-143-0	0	29				
Shooting Range Field	HAF-143-0.5	0.5	13				
Shooting Range Field	HAF-143-1	1	21				
Shooting Range Field	HAF-143-1.5	1.5	20				
Shooting Range Field	HAF-143-2	2	16				
Shooting Range Field	HAF-144-0	0	23				
Shooting Range Field	HAF-144-0.5	0.5	18				
Shooting Range Field	HAF-144-1	1	21				
Shooting Range Field	HAF-144-1.5	1.5	20				
Shooting Range Field	HAF-144-2	2	20				
Shooting Range Field	HAF-145-0	0	17				
Shooting Range Field	HAF-145-0.5	0.5	14				
Shooting Range Field	HAF-145-1	1	13				
Shooting Range Field	HAF-145-1.5	1.5	20				
Shooting Range Field	HAF-145-2	2	24				
Shooting Range Field	HAF-146-0	0	26				
Shooting Range Field	HAF-146-0 DUP	0	34				
Shooting Range Field	HAF-146-0.5	0.5	24				
Shooting Range Field	HAF-146-1	1	<LOD				
Shooting Range Field	HAF-146-1.5	1.5	19				
Shooting Range Field	HAF-146-2	2	26				
Shooting Range Field	HAF-146-0 g	0	1217				
Shooting Range Field	HAF-146-0 ng	0	724	2830	82.5	4.41	
Shooting Range Field	HAF-146-0.5 g	0.5	510				
Shooting Range Field	HAF-146-0.5 ng	0.5	460	735	51.1	0.116	
Shooting Range Field	HAF-146-1 g	1	38				
Shooting Range Field	HAF-146-1 ng	1	34	21.3			
Shooting Range Field	HAF-146-1.5 g	1.5	217				
Shooting Range Field	HAF-146-1.5 ng	1.5	159	169	17.7	0.040	
Shooting Range Field	HAF-146-2 g	2	57				
Shooting Range Field	HAF-146-2 ng	2	56	46.0			
Shooting Range Field	HAF-146-2.5 g	2.5	728				
Shooting Range Field	HAF-146-2.5 ng	2.5	484	802	62.1	0.182	
Shooting Range Field	HAF-151-0	0	33				
Shooting Range Field	HAF-151-0.5	0.5	34				
Shooting Range Field	HAF-151-1	1	24				
Shooting Range Field	HAF-151-1.5	1.5	25				
Shooting Range Field	HAF-151-2	2	14				
Shooting Range Field	HAF-152-0	0	66	40.4			
Shooting Range Field	HAF-152-0 DUP	0	60	55.1	0.213		
Shooting Range Field	HAF-152-0.5	0.5	40				
Shooting Range Field	HAF-152-1	1	35				
Shooting Range Field	HAF-152-1.5	1.5	17				
Shooting Range Field	HAF-152-2	2	18				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-153-0	0	241	176	4.75	0.111	
Shooting Range Field	HAF-153-0 DUP	0	69	72.4	0.90		
Shooting Range Field	HAF-153-0.5	0.5	34				
Shooting Range Field	HAF-153-1	1	25				
Shooting Range Field	HAF-153-1.5	1.5	25				
Shooting Range Field	HAF-153-2	2	39	20.8			
Shooting Range Field	HAF-154-0	0	514	483	14.0	0.339	
Shooting Range Field	HAF-154-0.5	0.5	190	149	6.19	ND	
Shooting Range Field	HAF-154-1	1	55	31.1			
Shooting Range Field	HAF-154-1.5	1.5	17				
Shooting Range Field	HAF-154-2	2	15				
Shooting Range Field	HAF-155-0	0	289	381	14.6	0.140	
Shooting Range Field	HAF-155-0 DUP	0	323	284	12.2	0.157	
Shooting Range Field	HAF-155-0.5	0.5	621	384	18.7		
Shooting Range Field	HAF-155-1	1	858	957	30.8	0.754	
Shooting Range Field	HAF-155-1.5	1.5	437	650	13.0	0.106	
Shooting Range Field	HAF-155-2	2	38				
Shooting Range Field	HAF-156-0	0	75	45.3			
Shooting Range Field	HAF-156-0.5	0.5	32				
Shooting Range Field	HAF-156-1	1	22				
Shooting Range Field	HAF-156-1.5	1.5	25				
Shooting Range Field	HAF-156-2	2	33				
Shooting Range Field	HAF-157-0.5	0.5	15				
Shooting Range Field	HAF-157-1	1	27				
Shooting Range Field	HAF-157-1.5	1.5	23				
Shooting Range Field	HAF-157-2	2	23				
Shooting Range Field	HAF-158-0	0	137	67.8	13.3		
Shooting Range Field	HAF-158-0 DUP	0	31				
Shooting Range Field	HAF-158-0.5	0.5	35				
Shooting Range Field	HAF-158-1	1	32				
Shooting Range Field	HAF-158-1.5	1.5	18				
Shooting Range Field	HAF-158-2	2	22				
Shooting Range Field	HAF-159-0	0	124	70.3	1.03		
Shooting Range Field	HAF-159-0.5	0.5	20				
Shooting Range Field	HAF-159-1	1	17				
Shooting Range Field	HAF-159-1.5	1.5	26				
Shooting Range Field	HAF-159-2	2	27				
Shooting Range Field	HAF-160-0	0	12				
Shooting Range Field	HAF-160-0 DUP	0	19				
Shooting Range Field	HAF-160-0.5	0.5	18				
Shooting Range Field	HAF-160-1	1	13				
Shooting Range Field	HAF-160-1.5	1.5	20				
Shooting Range Field	HAF-160-2	2	19				
Shooting Range Field	HAF-161-0	0	25				
Shooting Range Field	HAF-161-0.5	0.5	39				
Shooting Range Field	HAF-161-1	1	47				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-161-1.5	1.5	214	223	2.07	ND	
Shooting Range Field	HAF-161-2	2	1793	1340	27.1	0.657	
Shooting Range Field	HAF-161-2.5	2.5	23				
Shooting Range Field	HAF-162-0	0	680	927	24.0	1.24	
Shooting Range Field	HAF-162-0.5	0.5	26				
Shooting Range Field	HAF-162-1	1	40				
Shooting Range Field	HAF-162-1.5	1.5	25				
Shooting Range Field	HAF-162-2	2	25				
Shooting Range Field	HAF-163-0	0	65	35.1			
Shooting Range Field	HAF-163-0 DUP	0	30				
Shooting Range Field	HAF-163-0.5	0.5	24				
Shooting Range Field	HAF-163-1	1	26				
Shooting Range Field	HAF-163-1.5	1.5	21				
Shooting Range Field	HAF-163-2	2	26				
Shooting Range Field	HAF-164-0	0	18				
Shooting Range Field	HAF-164-0 DUP	0	28				
Shooting Range Field	HAF-164-0.5	0.5	18				
Shooting Range Field	HAF-164-1	1	17				
Shooting Range Field	HAF-164-1.5	1.5	15				
Shooting Range Field	HAF-164-2	2	20				
Shooting Range Field	HAF-165-0	0	24				
Shooting Range Field	HAF-165-0 DUP	0	33				
Shooting Range Field	HAF-165-0.5	0.5	20				
Shooting Range Field	HAF-165-1	1	21				
Shooting Range Field	HAF-165-1.5	1.5	17				
Shooting Range Field	HAF-165-2	2	14				
Shooting Range Field	HAF-166-0	0	25				
Shooting Range Field	HAF-166-0 DUP	0	31				
Shooting Range Field	HAF-166-0.5	0.5	24				
Shooting Range Field	HAF-166-1	1	17				
Shooting Range Field	HAF-166-1.5	1.5	23				
Shooting Range Field	HAF-166-2	2	20				
Shooting Range Field	HAF-167-0	0	42				
Shooting Range Field	HAF-167-0.5	0.5	32				
Shooting Range Field	HAF-167-1	1	13				
Shooting Range Field	HAF-167-1.5	1.5	19				
Shooting Range Field	HAF-167-2	2	25				
Shooting Range Field	HAF-172-0	0	197	164	5.81	ND	
Shooting Range Field	HAF-172-0.5	0.5	366	695	18.1	0.167	
Shooting Range Field	HAF-172-1	1	692	537	16.8	0.257	
Shooting Range Field	HAF-172-1.5	1.5	852	887	46.4	0.351	
Shooting Range Field	HAF-172-2	2	45				
Shooting Range Field	HAF-173-0	0	49				
Shooting Range Field	HAF-173-0 DUP	0	31				
Shooting Range Field	HAF-173-0.5	0.5	28				
Shooting Range Field	HAF-173-1	1	20				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-173-1.5	1.5	18				
Shooting Range Field	HAF-173-2	2	19				
Shooting Range Field	HAF-174-0	0	715	260	6.91		
Shooting Range Field	HAF-174-0.5	0.5	51	24.0			
Shooting Range Field	HAF-174-1	1	22				
Shooting Range Field	HAF-174-1.5	1.5	27				
Shooting Range Field	HAF-174-2	2	<LOD				
Shooting Range Field	HAF-175-0	0	362	594	17.9	0.181	
Shooting Range Field	HAF-175-0 DUP	0	539	442	37.4	0.418	
Shooting Range Field	HAF-175-0.5	0.5	1335	40.0	96.4	0.794	
Shooting Range Field	HAF-175-1	1	200	156	8.61	ND	
Shooting Range Field	HAF-175-1.5	1.5	34				
Shooting Range Field	HAF-175-2	2	19				
Shooting Range Field	HAF-176-0	0	477	417	15.0	0.204	
Shooting Range Field	HAF-176-0 DUP	0	704	680	16.7		
Shooting Range Field	HAF-176-0.5	0.5	89	61.7	1.79		
Shooting Range Field	HAF-176-1	1	30				
Shooting Range Field	HAF-176-1.5	1.5	20				
Shooting Range Field	HAF-176-2	2	26				
Shooting Range Field	HAF-177-0	0	448	371	6.13	0.186	
Shooting Range Field	HAF-177-0.5	0.5	261	171	4.81	0.080	
Shooting Range Field	HAF-177-1	1	54	24.5			
Shooting Range Field	HAF-177-1.5	1.5	23				
Shooting Range Field	HAF-177-2	2	21				
Shooting Range Field	HAF-178-0	0	673	595	43.3	0.387	
Shooting Range Field	HAF-178-0.5	0.5	53				
Shooting Range Field	HAF-178-1	1	18				
Shooting Range Field	HAF-178-2	2	18				
Shooting Range Field	HAF-179-0	0	728	597	26.8	0.324	
Shooting Range Field	HAF-179-0 DUP	0	1320	1090	55.2	1.14	
Shooting Range Field	HAF-179-0.5	0.5	266	262	19.5	0.114	
Shooting Range Field	HAF-179-1	1	30				
Shooting Range Field	HAF-179-1.5	1.5	22				
Shooting Range Field	HAF-179-2	2	21				
Shooting Range Field	HAF-180-0	0	807	863	40.0		
Shooting Range Field	HAF-180-0.5	0.5	55	45.2			
Shooting Range Field	HAF-180-1	1	22				
Shooting Range Field	HAF-180-1.5	1.5	21				
Shooting Range Field	HAF-180-2	2	15				
Shooting Range Field	HAF-181-0	0	317	242	17.0	0.067	
Shooting Range Field	HAF-181-0 DUP	0	302	255	11.7		
Shooting Range Field	HAF-181-0.5	0.5	54	26.7			
Shooting Range Field	HAF-181-1	1	42				
Shooting Range Field	HAF-181-1.5	1.5	27				
Shooting Range Field	HAF-181-2	2	32				
Shooting Range Field	HAF-182-0	0	485	809	21.5	0.169	

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-182-0 DUP	0	152	569	3.10	ND	
Shooting Range Field	HAF-182-0.5	0.5	132	125	3.64	ND	
Shooting Range Field	HAF-182-1	1	23				
Shooting Range Field	HAF-182-1.5	1.5	20				
Shooting Range Field	HAF-182-2	2	19				
Shooting Range Field	HAF-183-0	0	825	557	35.5	0.369	
Shooting Range Field	HAF-183-0.5	0.5	253	253	11.8	0.123	
Shooting Range Field	HAF-183-1	1	55	32.8			
Shooting Range Field	HAF-183-1.5	1.5	17				
Shooting Range Field	HAF-183-2	2	16				
Shooting Range Field	HAF-184-0	0	276	199	9.16		
Shooting Range Field	HAF-184-0.5	0.5	43				
Shooting Range Field	HAF-184-1	1	<LOD				
Shooting Range Field	HAF-184-1.5	1.5	23				
Shooting Range Field	HAF-184-2	2	16				
Shooting Range Field	HAF-185-0	0	70	21.5			
Shooting Range Field	HAF-185-0.5	0.5	14				
Shooting Range Field	HAF-185-1	1	20				
Shooting Range Field	HAF-185-1.5	1.5	17				
Shooting Range Field	HAF-185-2	2	25				
Shooting Range Field	HAF-186-0	0	44				
Shooting Range Field	HAF-186-0.5	0.5	16				
Shooting Range Field	HAF-186-1	1	26				
Shooting Range Field	HAF-186-1.5	1.5	16				
Shooting Range Field	HAF-186-2	2	24				
Shooting Range Field	HAF-187-0	0	17				
Shooting Range Field	HAF-187-0.5	0.5	26				
Shooting Range Field	HAF-187-1	1	21				
Shooting Range Field	HAF-187-1.5	1.5	20				
Shooting Range Field	HAF-187-2	2	15				
Shooting Range Field	HAF-188-0	0	39				
Shooting Range Field	HAF-188-0 DUP	0	47				
Shooting Range Field	HAF-188-0.5	0.5	21				
Shooting Range Field	HAF-188-1	1	17				
Shooting Range Field	HAF-188-1.5	1.5	21				
Shooting Range Field	HAF-188-2	2	25				
Shooting Range Field	HAF-189-0	0		16.6			
Shooting Range Field	HAF-189-0.5	0.5		7.35			
Shooting Range Field	HAF-189-1	1		7.97			
Shooting Range Field	HAF-189-1.5	1.5		7.50			
Shooting Range Field	HAF-189-2	2		9.51			
Shooting Range Field	HAF-193-0	0	41				
Shooting Range Field	HAF-193-0 DUP	0	45				
Shooting Range Field	HAF-193-0.5	0.5	28				
Shooting Range Field	HAF-193-1	1	23				
Shooting Range Field	HAF-193-1.5	1.5	16				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-193-2	2	23				
Shooting Range Field	HAF-194-0	0	49				
Shooting Range Field	HAF-194-0.5	0.5	56	76.3	0.992		
Shooting Range Field	HAF-194-1	1	29				
Shooting Range Field	HAF-194-1.5	1.5	20				
Shooting Range Field	HAF-194-2	2	22				
Shooting Range Field	HAF-195-0	0	93	156	7.21		
Shooting Range Field	HAF-195-0 DUP	0	65	75.5	8.93		
Shooting Range Field	HAF-195-0.5	0.5	42				
Shooting Range Field	HAF-195-1	1	35				
Shooting Range Field	HAF-195-1.5	1.5	32				
Shooting Range Field	HAF-195-2	2	33				
Shooting Range Field	HAF-196-0	0	91	52.2	2.02		
Shooting Range Field	HAF-196-0.5	0.5	46				
Shooting Range Field	HAF-196-1	1	18				
Shooting Range Field	HAF-196-1.5	1.5	21				
Shooting Range Field	HAF-196-2	2	22				
Shooting Range Field	HAF-197-0	0	637	866	20.4		
Shooting Range Field	HAF-197-0 DUP	0	446	293	12.6		
Shooting Range Field	HAF-197-0.5	0.5	72	43.3			
Shooting Range Field	HAF-197-1	1	39				
Shooting Range Field	HAF-197-1.5	1.5	28				
Shooting Range Field	HAF-197-2	2	102	237	6.24		
Shooting Range Field	HAF-197-2.5	2.5	65	227	1.40	ND	
Shooting Range Field	HAF-198-0	0	138	119	6.57	ND	
Shooting Range Field	HAF-198-0.75	0.75	192	427	9.76		
Shooting Range Field	HAF-198-1	1	24				
Shooting Range Field	HAF-198-1.5	1.5	23				
Shooting Range Field	HAF-198-2	2	18				
Shooting Range Field	HAF-199-0	0	340	347	23.3		
Shooting Range Field	HAF-199-0 DUP	0	250	277	14.5		
Shooting Range Field	HAF-199-0.5	0.5	1717	924	71.8	2.49	
Shooting Range Field	HAF-199-1	1	67	68.8	2.54		
Shooting Range Field	HAF-199-1.5	1.5	32				
Shooting Range Field	HAF-199-2	2	23				
Shooting Range Field	HAF-200-0 DUP	0	512	528	25.3		
Shooting Range Field	HAF-200-0.5	0.5	243	183	8.84		
Shooting Range Field	HAF-200-1	1	38				
Shooting Range Field	HAF-200-1.5	1.5	26				
Shooting Range Field	HAF-200-2	2	20				
Shooting Range Field	HAF-201-0.5	0.5	112	109	4.43	ND	
Shooting Range Field	HAF-201-1	1	99	82.9	1.77		
Shooting Range Field	HAF-201-1.5	1.5	38				
Shooting Range Field	HAF-201-2	2	19				
Shooting Range Field	HAF-202-0	0	589	535	25.6	5.03	
Shooting Range Field	HAF-202-0 DUP	0	557	502	14.1	0.341	

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-202-0.5	0.5	697	512	27.6	0.216	
Shooting Range Field	HAF-202-1	1	151	71.0	1.96		
Shooting Range Field	HAF-202-1.5	1.5	90	171	3.70	ND	
Shooting Range Field	HAF-202-2	2	25				
Shooting Range Field	HAF-203-0	0	854	1010	56.4		
Shooting Range Field	HAF-203-0 DUP	0	653	455	31.7		
Shooting Range Field	HAF-203-0.5	0.5	48				
Shooting Range Field	HAF-203-1	1	34				
Shooting Range Field	HAF-203-1.5	1.5	24				
Shooting Range Field	HAF-203-2	2	22				
Shooting Range Field	HAF-204-0	0	1223	1050	21.2	0.604	
Shooting Range Field	HAF-204-0.5	0.5	179	91.7	3.46		
Shooting Range Field	HAF-204-1	1	64				
Shooting Range Field	HAF-204-1.5	1.5	60	33.3			
Shooting Range Field	HAF-204-2	2	45				
Shooting Range Field	HAF-205-0	0	543	417	24.4	0.224	
Shooting Range Field	HAF-205-0 DUP	0	558	407	21.9	0.469	
Shooting Range Field	HAF-205-0.5	0.5	54	26.2			
Shooting Range Field	HAF-205-1	1	23				
Shooting Range Field	HAF-205-1.5	1.5	21				
Shooting Range Field	HAF-205-2	2	19				
Shooting Range Field	HAF-206-0	0	234	122	7.32	0.066	
Shooting Range Field	HAF-206-0 DUP	0	383	405	32.0	0.229	
Shooting Range Field	HAF-206-0.5	0.5	28				
Shooting Range Field	HAF-206-1	1	<LOD				
Shooting Range Field	HAF-206-1.5	1.5	26				
Shooting Range Field	HAF-206-2	2	39				
Shooting Range Field	HAF-207-0	0	78	57.3	2.04		
Shooting Range Field	HAF-207-0 DUP	0	144	170	11.2	ND	
Shooting Range Field	HAF-207-0.5	0.5	28				
Shooting Range Field	HAF-207-1	1	14				
Shooting Range Field	HAF-207-1.5	1.5	18				
Shooting Range Field	HAF-207-2	2	95	72.7	3.41		
Shooting Range Field	HAF-207-2.5	2.5	22				
Shooting Range Field	HAF-208-0	0	33				
Shooting Range Field	HAF-208-0 DUP	0	52	38.5			
Shooting Range Field	HAF-208-0.5	0.5	27				
Shooting Range Field	HAF-208-1	1	25	22.7			
Shooting Range Field	HAF-208-1.5	1.5	24				
Shooting Range Field	HAF-208-2	2	32				
Shooting Range Field	HAF-209-0	0	31				
Shooting Range Field	HAF-209-0.5	0.5	21				
Shooting Range Field	HAF-209-1	1	17				
Shooting Range Field	HAF-209-1.5	1.5	23				
Shooting Range Field	HAF-209-2	2	32				
Shooting Range Field	HAF-210-0	0		16.7			

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-210-0.5	0.5		13.2			
Shooting Range Field	HAF-210-1	1		8.39			
Shooting Range Field	HAF-210-1.5	1.5		7.40			
Shooting Range Field	HAF-210-2	2		7.75			
Shooting Range Field	HAF-215-0	0	41				
Shooting Range Field	HAF-215-0 DUP	0	45	22.0			
Shooting Range Field	HAF-215-0.5	0.5	<LOD				
Shooting Range Field	HAF-215-1	1	15				
Shooting Range Field	HAF-215-1.5	1.5	<LOD				
Shooting Range Field	HAF-215-2	2	30				
Shooting Range Field	HAF-216-0	0	101	151	5.13		
Shooting Range Field	HAF-216-0 DUP	0	<LOD				
Shooting Range Field	HAF-216-0.5	0.5	<LOD				
Shooting Range Field	HAF-216-1	1	13				
Shooting Range Field	HAF-216-1.5	1.5	<LOD				
Shooting Range Field	HAF-216-2	2	13				
Shooting Range Field	HAF-217-0	0	288	7350	14.6		
Shooting Range Field	HAF-217-0 DUP	0	87				
Shooting Range Field	HAF-217-0.5	0.5	36				
Shooting Range Field	HAF-217-1	1	36				
Shooting Range Field	HAF-217-1.5	1.5	23				
Shooting Range Field	HAF-217-2	2	53	27.8			
Shooting Range Field	HAF-218-0	0	69	112	11.0	ND	
Shooting Range Field	HAF-218-0.5	0.5	61	59.7	3.75		
Shooting Range Field	HAF-218-1	1	287	103	2.91		
Shooting Range Field	HAF-218-1.5	1.5	52	29.2			
Shooting Range Field	HAF-218-2	2	64	62.3	2.85		
Shooting Range Field	HAF-218-2.5	2.5	27				
Shooting Range Field	HAF-219-0	0	222	123	9.24		
Shooting Range Field	HAF-219-0.5	0.5	39				
Shooting Range Field	HAF-219-1	1	22				
Shooting Range Field	HAF-219-1.5	1.5	21				
Shooting Range Field	HAF-219-2	2	24				
Shooting Range Field	HAF-220-0	0	108	118	6.69		
Shooting Range Field	HAF-220-0 DUP	0	49				
Shooting Range Field	HAF-220-0.5	0.5	30				
Shooting Range Field	HAF-220-1	1	<LOD				
Shooting Range Field	HAF-220-1.5	1.5	19				
Shooting Range Field	HAF-220-2	2	16				
Shooting Range Field	HAF-221-0	0	141	130	1.47		
Shooting Range Field	HAF-221-0.5	0.5	70	45.3			
Shooting Range Field	HAF-221-1	1	30				
Shooting Range Field	HAF-221-1.5	1.5	29				
Shooting Range Field	HAF-221-2	2	50	33.3			
Shooting Range Field	HAF-222-0	0	249	203	9.44		
Shooting Range Field	HAF-222-0 DUP	0	303	250	13.6		

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-222-0.5	0.5	64	80.2	0.94		
Shooting Range Field	HAF-222-1	1	133	53.2	2.79		
Shooting Range Field	HAF-222-1.5	1.5	27				
Shooting Range Field	HAF-222-2	2	28				
Shooting Range Field	HAF-223-0	0	470	350	19.2		
Shooting Range Field	HAF-223-0 DUP	0	422	395	21.3		
Shooting Range Field	HAF-223-0.5	0.5	378	571	21.1	0.118	
Shooting Range Field	HAF-223-1	1	80	53.1	1.49		
Shooting Range Field	HAF-223-1.5	1.5	65	181	2.09		
Shooting Range Field	HAF-223-2	2	62	55.9	1.91		
Shooting Range Field	HAF-223-2.5	2.5	264	288	13.8	0.036	
Shooting Range Field	HAF-224-0	0	589	434	50.5		
Shooting Range Field	HAF-224-0.5	0.5	528				
Shooting Range Field	HAF-224-1	1	65				
Shooting Range Field	HAF-224-1.5	1.5	27				
Shooting Range Field	HAF-224-2	2	72	0.469			
Shooting Range Field	HAF-225-0	0	959	1050	59.6		
Shooting Range Field	HAF-225-0.5	0.5	422	606	25.4	0.294	
Shooting Range Field	HAF-225-1	1	659	661	30.6	0.434	
Shooting Range Field	HAF-225-1.5	1.5	67	47.6			
Shooting Range Field	HAF-225-2	2	395	297	15.7	ND	
Shooting Range Field	HAF-225-2.5	2.5	581	1230	36.4	0.094	
Shooting Range Field	HAF-226-0	0	889	528	45.5		
Shooting Range Field	HAF-226-0 DUP	0	611	941	60.7		
Shooting Range Field	HAF-226-0.5	0.5	465	738	27.2	0.288	
Shooting Range Field	HAF-226-1	1	203	162	7.19		
Shooting Range Field	HAF-226-1.5	1.5	174	147	8.07		
Shooting Range Field	HAF-226-2	2	85	72.7	2.47		
Shooting Range Field	HAF-226-2.5	2.5	507	895	26.9	0.237	
Shooting Range Field	HAF-227-0	0	1179	934	74.5	0.491	
Shooting Range Field	HAF-227-0.75	0.75	449	12.2			
Shooting Range Field	HAF-227-1	1	17				
Shooting Range Field	HAF-227-1.5	1.5	65	18.4			
Shooting Range Field	HAF-227-2	2	28				
Shooting Range Field	HAF-228-0	0	107	109	6.10	ND	
Shooting Range Field	HAF-228-0.5	0.5	18				
Shooting Range Field	HAF-228-1	1	23				
Shooting Range Field	HAF-228-1.5	1.5	34				
Shooting Range Field	HAF-228-2	2	104	85.0	4.29		
Shooting Range Field	HAF-228-2.5	2.5	26				
Shooting Range Field	HAF-229-0	0	22				
Shooting Range Field	HAF-229-0.5	0.5	371	192	12.1	0.103	
Shooting Range Field	HAF-229-1	1	22				
Shooting Range Field	HAF-229-1.5	1.5	14				
Shooting Range Field	HAF-229-2	2	54	63.2	3.14		
Shooting Range Field	HAF-229-2.5	2.5	32				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-230-0	0	47				
Shooting Range Field	HAF-230-0 DUP	0	78	116	5.52	ND	
Shooting Range Field	HAF-230-0.5	0.5	28				
Shooting Range Field	HAF-230-1	1	27				
Shooting Range Field	HAF-230-1.5	1.5	23				
Shooting Range Field	HAF-230-2	2	41				
Shooting Range Field	HAF-231-0	0		47.9			
Shooting Range Field	HAF-231-0.5	0.5		9.38			
Shooting Range Field	HAF-231-1	1		8.17			
Shooting Range Field	HAF-231-1.5	1.5		7.32			
Shooting Range Field	HAF-231-2	2		10.4			
Shooting Range Field	HAF-238-0	0	28				
Shooting Range Field	HAF-238-0.5	0.5	<LOD				
Shooting Range Field	HAF-238-1	1	<LOD				
Shooting Range Field	HAF-238-1.5	1.5	<LOD				
Shooting Range Field	HAF-238-2	2	<LOD				
Shooting Range Field	HAF-239-0	0	48				
Shooting Range Field	HAF-239-0.5	0.5	34				
Shooting Range Field	HAF-239-1	1	<LOD				
Shooting Range Field	HAF-239-1.5	1.5	13				
Shooting Range Field	HAF-239-2	2	29				
Shooting Range Field	HAF-240-0	0	696	15000	5.78	0.921	
Shooting Range Field	HAF-240-0 DUP	0	54	11200	2.78	ND	
Shooting Range Field	HAF-240-0.5	0.5	26				
Shooting Range Field	HAF-240-1	1	25				
Shooting Range Field	HAF-240-1.5	1.5	39				
Shooting Range Field	HAF-240-2	2	23				
Shooting Range Field	HAF-241-0	0	208	147	24.8		
Shooting Range Field	HAF-241-0.5	0.5	178	189	4.19		
Shooting Range Field	HAF-241-1	1	545	350	22.2		
Shooting Range Field	HAF-241-1.5	1.5	36				
Shooting Range Field	HAF-241-2	2	113	53.8	1.48		
Shooting Range Field	HAF-241-2.5	2.5	21				
Shooting Range Field	HAF-242-0	0	122	126	5.57		
Shooting Range Field	HAF-242-0 DUP	0	163	107	8.01		
Shooting Range Field	HAF-242-0.5	0.5	47				
Shooting Range Field	HAF-242-1	1	31				
Shooting Range Field	HAF-242-1.5	1.5	21				
Shooting Range Field	HAF-242-2	2	<LOD				
Shooting Range Field	HAF-243-0	0	96	72.5	2.51		
Shooting Range Field	HAF-243-0.5	0.5	35				
Shooting Range Field	HAF-243-1	1	21				
Shooting Range Field	HAF-243-1.5	1.5	18				
Shooting Range Field	HAF-243-2	2	25				
Shooting Range Field	HAF-244-0	0	281	257	9.48		
Shooting Range Field	HAF-244-0.5	0.5	60	35.4			

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-244-1	1	27				
Shooting Range Field	HAF-244-1.5	1.5	15				
Shooting Range Field	HAF-244-2	2	32				
Shooting Range Field	HAF-245-0	0	473	355	16.0		
Shooting Range Field	HAF-245-0 DUP	0	658	497	18.9		
Shooting Range Field	HAF-245-0.5	0.5	473	504	27.7		
Shooting Range Field	HAF-245-1	1	69	88.7	3.78		
Shooting Range Field	HAF-245-1.5	1.5	29				
Shooting Range Field	HAF-245-2	2	32				
Shooting Range Field	HAF-246-0	0	592	1060	41.9		
Shooting Range Field	HAF-246-0 DUP	0	122	235	5.42		
Shooting Range Field	HAF-246-0.5	0.5	138	187	11.1		
Shooting Range Field	HAF-246-1	1	46				
Shooting Range Field	HAF-246-1.5	1.5	34				
Shooting Range Field	HAF-246-2	2	118	112	7.22		
Shooting Range Field	HAF-246-2.5	2.5	909	1010	55.8	0.599	
Shooting Range Field	HAF-247-0	0	647	664	33.1		
Shooting Range Field	HAF-247-0.5	0.5	431	284	18.1		
Shooting Range Field	HAF-247-1	1	45				
Shooting Range Field	HAF-247-1.5	1.5	110	110	1.19		
Shooting Range Field	HAF-247-2	2	142	220	8.04		
Shooting Range Field	HAF-247-2.5	2.5	392	1100	14.4	0.289	
Shooting Range Field	HAF-248-0	0	379	346	12.3	0.326	
Shooting Range Field	HAF-248-0 DUP	0	290	526	34.7	0.409	
Shooting Range Field	HAF-248-0.5	0.5	36				
Shooting Range Field	HAF-248-1	1	22				
Shooting Range Field	HAF-248-1.5	1.5	57	16.1			
Shooting Range Field	HAF-248-2	2	56	21.0			
Shooting Range Field	HAF-249-0	0	101	80.4	1.91		
Shooting Range Field	HAF-249-0 DUP	0	109	164	9.13	0.050	
Shooting Range Field	HAF-249-0.5	0.5	18				
Shooting Range Field	HAF-249-1	1	36				
Shooting Range Field	HAF-249-1.5	1.5	27				
Shooting Range Field	HAF-249-2	2	101	74.9	4.59		
Shooting Range Field	HAF-249-2.5	2.5	34				
Shooting Range Field	HAF-250-0	0	21				
Shooting Range Field	HAF-250-0 DUP	0	115	83.1	3.76		
Shooting Range Field	HAF-250-0.5	0.5	24				
Shooting Range Field	HAF-250-1	1	24				
Shooting Range Field	HAF-250-1.5	1.5	18				
Shooting Range Field	HAF-250-2	2	19				
Shooting Range Field	HAF-251-0	0	109	69.4	2.55		
Shooting Range Field	HAF-251-0.5	0.5	22				
Shooting Range Field	HAF-251-1	1	14				
Shooting Range Field	HAF-251-1.5	1.5	16				
Shooting Range Field	HAF-251-2	2	46				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-252-0	0		33.9			
Shooting Range Field	HAF-252-0.5	0.5		8.75			
Shooting Range Field	HAF-252-1	1		7.03			
Shooting Range Field	HAF-252-1.5	1.5		6.65			
Shooting Range Field	HAF-252-2	2		8.81			
Shooting Range Field	HAF-261-0	0	36				
Shooting Range Field	HAF-261-0 DUP	0	29				
Shooting Range Field	HAF-261-0.5	0.5	<LOD				
Shooting Range Field	HAF-261-1	1	15				
Shooting Range Field	HAF-261-1.5	1.5	12				
Shooting Range Field	HAF-261-2	2	<LOD				
Shooting Range Field	HAF-262-0	0	159	207	6.37		
Shooting Range Field	HAF-262-0 DUP	0	51	71.3	3.75		
Shooting Range Field	HAF-262-0.5	0.5	<LOD				
Shooting Range Field	HAF-262-1	1	<LOD				
Shooting Range Field	HAF-262-1.5	1.5	12				
Shooting Range Field	HAF-262-2	2	43				
Shooting Range Field	HAF-263-0	0	291	267	16.0		
Shooting Range Field	HAF-263-0.5	0.5	64	49.5			
Shooting Range Field	HAF-263-1	1	34				
Shooting Range Field	HAF-263-1.5	1.5	31				
Shooting Range Field	HAF-263-2	2	146	113	3.08		
Shooting Range Field	HAF-263-2.5	2.5	31				
Shooting Range Field	HAF-264-0	0	76	222	2.22	ND	
Shooting Range Field	HAF-264-0.5	0.5	41				
Shooting Range Field	HAF-264-1	1	23				
Shooting Range Field	HAF-264-1.5	1.5	29				
Shooting Range Field	HAF-264-2	2	43				
Shooting Range Field	HAF-265-0	0	184	172	6.56		
Shooting Range Field	HAF-265-0 DUP	0	216	178	5.89		
Shooting Range Field	HAF-265-0.5	0.5	148	167	10.1		
Shooting Range Field	HAF-265-1	1	28				
Shooting Range Field	HAF-265-1.5	1.5	25				
Shooting Range Field	HAF-265-2	2	150	171	6.38		
Shooting Range Field	HAF-265-2.5	2.5	119	90.9	5.42		
Shooting Range Field	HAF-266-0	0	403	412	7.74		
Shooting Range Field	HAF-266-0.5	0.5	254	349	14.4		
Shooting Range Field	HAF-266-1	1	42				
Shooting Range Field	HAF-266-1.5	1.5	45				
Shooting Range Field	HAF-266-2	2	76	64.7	2.98		
Shooting Range Field	HAF-266-2.5	2.5	286	242	15.5	0.059	
Shooting Range Field	HAF-267-0	0	878				
Shooting Range Field	HAF-267-0 DUP	0	566	488	29.3		
Shooting Range Field	HAF-267-0.5	0.5	572	503	36.1		
Shooting Range Field	HAF-267-1	1	114	142	3.66		
Shooting Range Field	HAF-267-1.5	1.5	71	90.5	6.53		

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-267-2	2	118	114	6.07	ND	
Shooting Range Field	HAF-267-2.5	2.5	557	375	20.9	ND	
Shooting Range Field	HAF-268-0	0	23				
Shooting Range Field	HAF-268-0.5	0.5	409	409	11.3		
Shooting Range Field	HAF-268-1	1	792	614	44.6		
Shooting Range Field	HAF-268-1.5	1.5	71	77.8	2.73		
Shooting Range Field	HAF-268-2	2	42				
Shooting Range Field	HAF-268-2.5	2.5	122	168	3.90	ND	
Shooting Range Field	HAF-269-0	0	62	15.3			
Shooting Range Field	HAF-269-0.5	0.5	13				
Shooting Range Field	HAF-269-1	1	32				
Shooting Range Field	HAF-269-1.5	1.5	21				
Shooting Range Field	HAF-269-2	2	35				
Shooting Range Field	HAF-270-0	0	103	60.6	2.99		
Shooting Range Field	HAF-270-0.5	0.5	19				
Shooting Range Field	HAF-270-1	1	18				
Shooting Range Field	HAF-270-1.5	1.5	30				
Shooting Range Field	HAF-270-2	2	31				
Shooting Range Field	HAF-271-0	0	157	119	9.29	0.071	
Shooting Range Field	HAF-271-0.5	0.5	24				
Shooting Range Field	HAF-271-1	1	20				
Shooting Range Field	HAF-271-1.5	1.5	24				
Shooting Range Field	HAF-271-2	2	37				
Shooting Range Field	HAF-272-0	0	151	111	5.47	ND	
Shooting Range Field	HAF-272-0 DUP	0	81	82.6	5.15		
Shooting Range Field	HAF-272-0.5	0.5	22				
Shooting Range Field	HAF-272-1	1	24				
Shooting Range Field	HAF-272-1.5	1.5	28				
Shooting Range Field	HAF-272-2	2	47				
Shooting Range Field	HAF-273-0	0		23.4			
Shooting Range Field	HAF-273-0.5	0.5		9.90			
Shooting Range Field	HAF-273-1	1		7.19			
Shooting Range Field	HAF-273-1.5	1.5		7.83			
Shooting Range Field	HAF-273-2	2		21.3			
Shooting Range Field	HAF-284-0	0	36				
Shooting Range Field	HAF-284-0.5	0.5	15				
Shooting Range Field	HAF-284-1	1	16				
Shooting Range Field	HAF-284-1.5	1.5	<LOD				
Shooting Range Field	HAF-284-2	2	<LOD				
Shooting Range Field	HAF-285-0	0	66	36.0			
Shooting Range Field	HAF-285-0 DUP	0	78	54.7	2.44		
Shooting Range Field	HAF-285-0.5	0.5	39				
Shooting Range Field	HAF-285-1	1	32				
Shooting Range Field	HAF-285-1.5	1.5	20				
Shooting Range Field	HAF-285-2	2	21				
Shooting Range Field	HAF-286-0	0	24				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-286-0.5	0.5	<LOD				
Shooting Range Field	HAF-286-1	1	<LOD				
Shooting Range Field	HAF-286-1.5	1.5	14				
Shooting Range Field	HAF-286-2	2	14				
Shooting Range Field	HAF-287-0	0	141	150	4.25	ND	
Shooting Range Field	HAF-287-0 DUP	0	187	399	13.3	ND	
Shooting Range Field	HAF-287-0.5	0.5	35				
Shooting Range Field	HAF-287-1	1	21				
Shooting Range Field	HAF-287-1.5	1.5	22				
Shooting Range Field	HAF-287-2	2	21				
Shooting Range Field	HAF-288-0	0	343	978	29.0	0.862	
Shooting Range Field	HAF-288-0.5	0.5	36				
Shooting Range Field	HAF-288-1	1	17				
Shooting Range Field	HAF-288-1.5	1.5	25				
Shooting Range Field	HAF-288-2	2	22				
Shooting Range Field	HAF-289-0	0	69	18.2			
Shooting Range Field	HAF-289-0 DUP	0	684	495	30.1	0.249	
Shooting Range Field	HAF-289-0.5	0.5	21				
Shooting Range Field	HAF-289-1	1	18				
Shooting Range Field	HAF-289-1.5	1.5	102	81.5	4.81		
Shooting Range Field	HAF-289-2	2	25				
Shooting Range Field	HAF-290-0	0	114	84.4	5.84		
Shooting Range Field	HAF-290-0 DUP	0	153	189	9.22	0.064	
Shooting Range Field	HAF-290-0.5	0.5	18				
Shooting Range Field	HAF-290-1	1	21				
Shooting Range Field	HAF-290-1.5	1.5	24				
Shooting Range Field	HAF-290-2	2	33				
Shooting Range Field	HAF- 291-0 DUP	0		131	7.29	0.057	
Shooting Range Field	HAF-291-0	0	72	45.9			
Shooting Range Field	HAF-291-0 DUP	0	77				
Shooting Range Field	HAF-291-0.5	0.5	24				
Shooting Range Field	HAF-291-1	1	19				
Shooting Range Field	HAF-291-1.5	1.5	28				
Shooting Range Field	HAF-291-2	2	84	33.1			
Shooting Range Field	HAF-292-0	0	43				
Shooting Range Field	HAF-292-0 DUP	0	33				
Shooting Range Field	HAF-292-0.5	0.5	27				
Shooting Range Field	HAF-292-1	1	16				
Shooting Range Field	HAF-292-1.5	1.5	24				
Shooting Range Field	HAF-292-2	2	36				
Shooting Range Field	HAF-293-0	0	37				
Shooting Range Field	HAF-293-0.5	0.5	23				
Shooting Range Field	HAF-293-1	1	14				
Shooting Range Field	HAF-293-1.5	1.5	13				
Shooting Range Field	HAF-293-2	2	27				
Shooting Range Field	HAF-294-0	0		22.7			

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-294-0.5	0.5		10.1			
Shooting Range Field	HAF-294-1	1		7.27			
Shooting Range Field	HAF-294-1.5	1.5		7.58			
Shooting Range Field	HAF-294-2	2		21.6			
Shooting Range Field	HAF-307-0	0	20				
Shooting Range Field	HAF-307-0.5	0.5	21				
Shooting Range Field	HAF-307-1	1	<LOD				
Shooting Range Field	HAF-307-1.5	1.5	14				
Shooting Range Field	HAF-307-2	2	<LOD				
Shooting Range Field	HAF-308-0	0	22				
Shooting Range Field	HAF-308-1	1	19				
Shooting Range Field	HAF-308-1.5	1.5	21				
Shooting Range Field	HAF-308-2	2	34				
Shooting Range Field	HAF-309-0	0	105	133	5.26	ND	
Shooting Range Field	HAF-309-0 DUP	0	129	108	5.36	0.055	
Shooting Range Field	HAF-309-0.5	0.5	45				
Shooting Range Field	HAF-309-1	1	23				
Shooting Range Field	HAF-309-1.5	1.5	22				
Shooting Range Field	HAF-309-2	2	12				
Shooting Range Field	HAF-310-0	0	22				
Shooting Range Field	HAF-310-0.5	0.5	16				
Shooting Range Field	HAF-310-1	1	13				
Shooting Range Field	HAF-310-1.5	1.5	21				
Shooting Range Field	HAF-310-2	2	15				
Shooting Range Field	HAF-311-0	0	163	131	6.62	ND	
Shooting Range Field	HAF-311-0.5	0.5	15				
Shooting Range Field	HAF-311-1	1	18				
Shooting Range Field	HAF-311-1.5	1.5	16				
Shooting Range Field	HAF-311-2	2	19				
Shooting Range Field	HAF-312-0	0	30				
Shooting Range Field	HAF-312-0.5	0.5	<LOD				
Shooting Range Field	HAF-312-1	1	20				
Shooting Range Field	HAF-312-1.5	1.5	21				
Shooting Range Field	HAF-312-2	2	17				
Shooting Range Field	HAF-313-0	0	30				
Shooting Range Field	HAF-313-0.5	0.5	26				
Shooting Range Field	HAF-313-1	1	19				
Shooting Range Field	HAF-313-1.5	1.5	15				
Shooting Range Field	HAF-313-2	2	30				
Shooting Range Field	HAF-314-0	0	36				
Shooting Range Field	HAF-314-0 DUP	0	36				
Shooting Range Field	HAF-314-0.5	0.5	24				
Shooting Range Field	HAF-314-1	1	17				
Shooting Range Field	HAF-314-1.5	1.5	28				
Shooting Range Field	HAF-314-2	2	28				
Shooting Range Field	HAF-315-0	0		28.5			

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-315-0.5	0.5		9.34			
Shooting Range Field	HAF-315-1	1		7.40			
Shooting Range Field	HAF-315-1.5	1.5		7.62			
Shooting Range Field	HAF-315-2	2		7.08			
Shooting Range Field	HAF-330-0	0	23				
Shooting Range Field	HAF-330-0 DUP	0	29				
Shooting Range Field	HAF-330-0.5	0.5	26				
Shooting Range Field	HAF-330-1	1	<LOD				
Shooting Range Field	HAF-330-1.5	1.5	23				
Shooting Range Field	HAF-330-2	2	31				
Shooting Range Field	HAF-331-0	0	25				
Shooting Range Field	HAF-331-0.5	0.5	23				
Shooting Range Field	HAF-331-1	1	19				
Shooting Range Field	HAF-331-1.5	1.5	20				
Shooting Range Field	HAF-331-2	2	15				
Shooting Range Field	HAF-332-0	0	24				
Shooting Range Field	HAF-332-0 DUP	0	22				
Shooting Range Field	HAF-332-0.5	0.5	15				
Shooting Range Field	HAF-332-1	1	24				
Shooting Range Field	HAF-332-1.5	1.5	26				
Shooting Range Field	HAF-332-2	2	19				
Shooting Range Field	HAF-333-0	0	29				
Shooting Range Field	HAF-333-0 DUP	0	31				
Shooting Range Field	HAF-333-0.5	0.5	17				
Shooting Range Field	HAF-333-1	1	14				
Shooting Range Field	HAF-333-1.5	1.5	16				
Shooting Range Field	HAF-333-2	2	13				
Shooting Range Field	HAF-334-0	0	26				
Shooting Range Field	HAF-334-0 DUP	0	46				
Shooting Range Field	HAF-334-0.5	0.5	19				
Shooting Range Field	HAF-334-1	1	17				
Shooting Range Field	HAF-334-1.5	1.5	19				
Shooting Range Field	HAF-334-2	2	21				
Shooting Range Field	HAF-335-0	0	30				
Shooting Range Field	HAF-335-0.5	0.5	22				
Shooting Range Field	HAF-335-0.75	0.75	25				
Shooting Range Field	HAF-335-1	1	19				
Shooting Range Field	HAF-335-1.5	1.5	18				
Shooting Range Field	HAF-335-2	2	29				
Shooting Range Field	HAF-336-0	0		11.0			
Shooting Range Field	HAF-336-0.5	0.5		6.77			
Shooting Range Field	HAF-336-1	1		7.51			
Shooting Range Field	HAF-336-1.5	1.5		7.62			
Shooting Range Field	HAF-336-2	2		7.84			
Shooting Range Field	HAF-355-0	0		14.1			
Shooting Range Field	HAF-355-0.5	0.5		8.70			

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAF-355-1	1		7.70			
Shooting Range Field	HAF-355-1.5	1.5		7.96			
Shooting Range Field	HAF-355-2	2		8.28			
Shooting Range Field	HAF-364-0	0		16.8			
Shooting Range Field	HAF-364-0.5	0.5		10.0			
Shooting Range Field	HAF-364-1	1		8.23			
Shooting Range Field	HAF-364-1.5	1.5		7.88			
Shooting Range Field	HAF-364-2	2		7.46			
Shooting Range Field	HAF-373-0	0		21.3			
Shooting Range Field	HAF-373-0.5	0.5		11.4			
Shooting Range Field	HAF-373-1	1		8.26			
Shooting Range Field	HAF-373-1.5	1.5		8.85			
Shooting Range Field	HAF-373-2	2		8.21			
Shooting Range Field	HAF-382-0	0		13.2			
Shooting Range Field	HAF-382-0.5	0.5		8.31			
Shooting Range Field	HAF-382-1	1		8.18			
Shooting Range Field	HAF-382-1.5	1.5		7.94			
Shooting Range Field	HAF-382-2	2		10.6			
Shooting Range Field	HAF-391-0	0		21.7			
Shooting Range Field	HAF-391-0.5	0.5		13.2			
Shooting Range Field	HAF-391-1	1		8.98			
Shooting Range Field	HAF-391-1.5	1.5		8.27			
Shooting Range Field	HAF-391-2	2		7.53			
Shooting Range Field	HAF-400-0	0		25.4			
Shooting Range Field	HAF-400-0.5	0.5		13.5			
Shooting Range Field	HAF-400-1	1		8.57			
Shooting Range Field	HAF-400-1.5	1.5		7.09			
Shooting Range Field	HAF-400-2	2		7.57			
Shooting Range Field	HAF-409-0	0		25.0			
Shooting Range Field	HAF-409-0.5	0.5		14.4			
Shooting Range Field	HAF-409-1	1		9.15			
Shooting Range Field	HAF-409-1.5	1.5		8.58			
Shooting Range Field	HAF-409-2	2		8.11			
Shooting Range Field	HAF-418-0	0		7.04			
Shooting Range Field	HAF-418-0.5	0.5		7.76			
Shooting Range Field	HAF-418-1	1		6.72			
Shooting Range Field	HAF-418-1.5	1.5		6.71			
Shooting Range Field	HAF-418-2	2		8.00			
Shooting Range Field	HAFS-110-0	0		30.2			0.043
Shooting Range Field	HAFS-110-2.5	2.5		6.85			0.011
Shooting Range Field	HAFS-114-0	0		244			0.251
Shooting Range Field	HAFS-114-2.5	2.5		68.6			0.102
Shooting Range Field	HAFS-161-0	0		12.7			0.013
Shooting Range Field	HAFS-161-2.0	2		6.40			0.005
Shooting Range Field	HAFS-197-0	0		623			0.371
Shooting Range Field	HAFS-197-2.5	2.5		7.48			0.008

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	HAFS-223-0	0		377			0.760
Shooting Range Field	HAFS-223-2.5	2.5		9.11			0.014
Shooting Range Field	HAFS-228-0	0		157			0.152
Shooting Range Field	HAFS-228-2.5	2.5		12.0			0.006
Shooting Range Field	HAFS-240-0	0		154			0.051
Shooting Range Field	HAFS-240-2.5	2.5		10.1			0.008
Shooting Range Field	HAFS-267-0	0		859			0.331
Shooting Range Field	HAFS-267-2.5	2.5		9.94			0.009
Shooting Range Field	HAFS-270-0	0		91.9			0.132
Shooting Range Field	HAFS-270-2.5	2.5		8.09			0.007
Shooting Range Field	HAFS-287-0	0		247			0.202
Shooting Range Field	HAFS-287-2.5	2.5		7.57			0.012
Shooting Range Field	MW-7-1	1	35				
Shooting Range Field	MW-7-3	3	24				
Shooting Range Field	MW-7-5	5	45				
Shooting Range Field	MW-8-1	1	16				
Shooting Range Field	MW-8-3	3	20				
Shooting Range Field	MW-8-5	5	22				
Shooting Range Field	T-A-0	0	198	203	5.37	0.127	
Shooting Range Field	T-A-2.5	2.5	61	48.9			
Shooting Range Field	T-A-6	6	31				
Shooting Range Field	T-B-0	0	24				
Shooting Range Field	T-B-0 DUP	0	33				
Shooting Range Field	T-B-2.5	2.5	17				
Shooting Range Field	T-B-5	5	23				
Shooting Range Field	T-C-0	0	40				
Shooting Range Field	T-C-2	2	20				
Shooting Range Field	T-C-4.5	4.5	19				
Shooting Range Field	T-D-0	0	27				
Shooting Range Field	T-D-2	2	<LOD				
Shooting Range Field	T-D-4	4	23				
Shooting Range Field	TE-1M-0	0	71	85.6	2.40		
Shooting Range Field	TE-1m-0 DUP	0	32				
Shooting Range Field	TE-1m-0.5	0.5	30				
Shooting Range Field	TE-1m-1	1	42				
Shooting Range Field	TE-1m-1.5	1.5	26				
Shooting Range Field	TE-1m-2	2	30				
Shooting Range Field	TE-1N-0	0	188	227	6.29	0.069	
Shooting Range Field	TE-1n-0.5	0.5	37				
Shooting Range Field	TE-1n-1	1	25				
Shooting Range Field	TE-1n-1.5	1.5	26				
Shooting Range Field	TE-1n-2	2	44				
Shooting Range Field	TE-1S-0	0	114	105	2.65	ND	
Shooting Range Field	TE-1S-0.5	0.5	52	57.0	1.29		
Shooting Range Field	TE-1s-1	1	20				
Shooting Range Field	TE-1s-1.5	1.5	35				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	TE-1s-2	2	31				
Shooting Range Field	TE-2M-0	0	186	453	5.91	ND	
Shooting Range Field	TE-2M-0.5	0.5	70	106	2.12	ND	
Shooting Range Field	TE-2m-1	1	33				
Shooting Range Field	TE-2m-1.5	1.5	33				
Shooting Range Field	TE-2m-2	2	35				
Shooting Range Field	TE-2N-0	0	233	248	5.46	ND	
Shooting Range Field	TE-2N-0 DUP	0	254	217	4.66	0.052	
Shooting Range Field	TE-2N-0.5	0.5	61	32.3			
Shooting Range Field	TE-2n-1	1	26				
Shooting Range Field	TE-2n-1.5	1.5	43				
Shooting Range Field	TE-2n-2	2	26				
Shooting Range Field	TE-2S-0	0	189	575	4.42	0.056	
Shooting Range Field	TE-2S-0 DUP	0	188	212	5.01	0.079	
Shooting Range Field	TE-2s-0.5	0.5	28				
Shooting Range Field	TE-2s-1	1	30				
Shooting Range Field	TE-2s-1.5	1.5	23				
Shooting Range Field	TE-2s-2	2	47				
Shooting Range Field	TE-3M-0	0	93	128	3.62	ND	
Shooting Range Field	TE-3M-0 DUP	0	160	175	5.15	0.050	
Shooting Range Field	TE-3M-0.5	0.5	80	78.7	2.02		
Shooting Range Field	TE-3m-1	1	30				
Shooting Range Field	TE-3m-1.5	1.5	29				
Shooting Range Field	TE-3m-2	2	30				
Shooting Range Field	TE-3N-0	0	64	54.9	2.32		
Shooting Range Field	TE-3n-0.5	0.5	31				
Shooting Range Field	TE-3n-1	1	33				
Shooting Range Field	TE-3n-1.5	1.5	26				
Shooting Range Field	TE-3n-2	2	19				
Shooting Range Field	TE-3S-0	0	67	86.0	1.36		
Shooting Range Field	TE-3s-0.5	0.5	38				
Shooting Range Field	TE-3s-1	1	41				
Shooting Range Field	TE-3s-1.5	1.5	24				
Shooting Range Field	TE-3s-2	2	26				
Shooting Range Field	TF-89-0	0	400	452	39.9	0.764	
Shooting Range Field	TF-89-0.5	0.5	441	480	41.4	0.676	
Shooting Range Field	TF-89-1	1	299	327	23.9	0.433	
Shooting Range Field	TF-89-1.5	1.5	31				
Shooting Range Field	TF-89-2	2	20				
Shooting Range Field	TF-89-2.5	2.5	19	8.50			
Shooting Range Field	TF-114-0	0	388	569	44.8	0.658	
Shooting Range Field	TF-114-0.5	0.5	151	65.9	4.92		
Shooting Range Field	TF-114-1	1	32				
Shooting Range Field	TF-114-1.5	1.5	39				
Shooting Range Field	TF-114-2	2	49	24.5			
Shooting Range Field	TF-114-2.5	2.5	98	114	5.44	0.11	

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	TF-114-3	3	59	67.9	4.55		
Shooting Range Field	TF-114-3.5	3.5	23	7.15			
Shooting Range Field	TF-141-0	0	385	551	50.1	0.571	
Shooting Range Field	TF-141-0.5	0.5	905	2030	213	9.06	
Shooting Range Field	TF-141-1	1	1078	3180	267	13.4	
Shooting Range Field	TF-141-1.5	1.5	40	46.8			
Shooting Range Field	TF-141-2	2	39	39.4			
Shooting Range Field	TF-141-2.5	2.5	37	19.3			
Shooting Range Field	TF-146 QA/QC-0	0	1573	5000	145	2.23	
Shooting Range Field	TF-146 QA/QC-0.5	0.5	797	904	93.3	0.884	
Shooting Range Field	TF-146 QA/QC-1	1	140	235	25.4	0.084	
Shooting Range Field	TF-146 QA/QC-1.5	1.5	29				
Shooting Range Field	TF-146 QA/QC-2	2	46				
Shooting Range Field	TF-146 QA/QC-2.5	2.5	21				
Shooting Range Field	TF-146 QA/QC-3	3	23	7.64			
Shooting Range Field	TF-161-0	0	137	83.5	4.62		
Shooting Range Field	TF-161-0.5	0.5	27				
Shooting Range Field	TF-161-1	1	18				
Shooting Range Field	TF-161-1.5	1.5	16				
Shooting Range Field	TF-161-2	2	15				
Shooting Range Field	TF-161-2.5	2.5	17	6.81			
Shooting Range Field	TF-172-0	0	248	300	17.6	0.118	
Shooting Range Field	TF-172-0.5	0.5	549	781	55.0	1.58	
Shooting Range Field	TF-172-1	1	481	534	60.8	1.02	
Shooting Range Field	TF-172-1.5	1.5	619	536	56.5	0.834	
Shooting Range Field	TF-172-2	2	908	978	84.2	1.27	
Shooting Range Field	TF-172-2.5	2.5	39	22.0			
Shooting Range Field	TF-193M-0	0	54	40.1			
Shooting Range Field	TF-193m-0.5	0.5	44				
Shooting Range Field	TF-193m-1	1	33				
Shooting Range Field	TF-193m-1.5	1.5	20				
Shooting Range Field	TF-193m-2	2	20				
Shooting Range Field	TF-193M-2.5	2.5	21	8.94			
Shooting Range Field	TF-194m-0	0	37				
Shooting Range Field	TF-194m-0.5	0.5	33				
Shooting Range Field	TF-194m-1	1	28				
Shooting Range Field	TF-194m-1.5	1.5	16				
Shooting Range Field	TF-194m-2	2	30				
Shooting Range Field	TF-194M-2.5	2.5	23	7.80			
Shooting Range Field	TF-195M-0	0	83	157	1.07	ND	
Shooting Range Field	TF-195m-0.5	0.5	58				
Shooting Range Field	TF-195m-1	1	35				
Shooting Range Field	TF-195m-1.5	1.5	21				
Shooting Range Field	TF-195m-2	2	20				
Shooting Range Field	TF-195M-2.5	2.5	27	52.7	0.12		
Shooting Range Field	TF-196M-0	0	110	177	4.51	ND	

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	TF-196m-0.5	0.5	38				
Shooting Range Field	TF-196m-1	1	26				
Shooting Range Field	TF-196m-1.5	1.5	28				
Shooting Range Field	TF-196m-2	2	29				
Shooting Range Field	TF-196M-2.5	2.5	25	54.7	ND		
Shooting Range Field	TF-197M-0	0	494	880	26.9	0.244	
Shooting Range Field	TF-197M-0.5	0.5	56	148	5.33	0.051	
Shooting Range Field	TF-197m-1	1	37				
Shooting Range Field	TF-197m-1.5	1.5	23				
Shooting Range Field	TF-197m-2	2	29				
Shooting Range Field	TF-197M-2.5	2.5	20	48.8			
Shooting Range Field	TF-198M-0	0	202	447	11.9	0.074	
Shooting Range Field	TF-198M-0.5	0.5	127	117	3.68	ND	
Shooting Range Field	TF-198m-1	1	25				
Shooting Range Field	TF-198m-1.5	1.5	27				
Shooting Range Field	TF-198m-2	2	48				
Shooting Range Field	TF-198M-2.5	2.5	18	52.5	ND		
Shooting Range Field	TF-199M-0	0	328	873	41.6	0.53	
Shooting Range Field	TF-199M-0 DUP	0	268	229	9.16	0.118	
Shooting Range Field	TF-199M-0.5	0.5	434	942	22.7	ND	
Shooting Range Field	TF-199M-1	1	636	3640	65.7	0.84	
Shooting Range Field	TF-199M-1.5	1.5	237	475	8.22	ND	
Shooting Range Field	TF-199m-2	2	31				
Shooting Range Field	TF-199M-2.5	2.5	21	54.3	ND		
Shooting Range Field	TF-199N-0	0	295	834	32.6	ND	
Shooting Range Field	TF-199N-0.5	0.5	717	2480	107	1.26	
Shooting Range Field	TF-199N-1	1	301	656	16.7	ND	
Shooting Range Field	TF-199n-1.5	1.5	31				
Shooting Range Field	TF-199n-2	2	26				
Shooting Range Field	TF-199S-0	0	262	762	33.0	ND	
Shooting Range Field	TF-199S-0.5	0.5	473	1020	83.9	ND	
Shooting Range Field	TF-199S-1	1	697	2620	82.4	0.51	
Shooting Range Field	TF-199S-1.5	1.5	92	422	11.4	ND	
Shooting Range Field	TF-199s-2	2	47				
Shooting Range Field	TF-200M-0	0	568	832	45.1	0.59	
Shooting Range Field	TF-200M-0.5	0.5	529	1110	83.3	ND	
Shooting Range Field	TF-200M-1	1	129	126	5.71	ND	
Shooting Range Field	TF-200M-1.5	1.5	50	27.8			
Shooting Range Field	TF-200m-2	2	15				
Shooting Range Field	TF-200M-2.5	2.5	18	49.8			
Shooting Range Field	TF-200N-0	0	495	630	41.4	ND	
Shooting Range Field	TF-200N-0 DUP	0	312	405	11.9	0.193	
Shooting Range Field	TF-200N-0.5	0.5	623	1000	77.2	ND	
Shooting Range Field	TF-200N-1	1	165	302	7.17	ND	
Shooting Range Field	TF-200n-1.5	1.5	34				
Shooting Range Field	TF-200n-2	2	24				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	TF-200S-0	0	557	2760	55.4	0.501	
Shooting Range Field	TF-200S-0 DUP	0	400	440	14.2	0.257	
Shooting Range Field	TF-200S-0.5	0.5	560	1350	34.0	ND	
Shooting Range Field	TF-200S-1	1	315	407	13.5	ND	
Shooting Range Field	TF-200S-1.5	1.5	67	69.4	2.07		
Shooting Range Field	TF-200s-2	2	41				
Shooting Range Field	TF-201m-0	0	680	1580	74.8	ND	
Shooting Range Field	TF-201M-0 DUP	0	287	520	21.1	0.226	
Shooting Range Field	TF-201M-0.5	0.5	311	229	20.6	ND	
Shooting Range Field	TF-201M-1	1	136	256	7.96	ND	
Shooting Range Field	TF-201m-1.5	1.5	31				
Shooting Range Field	TF-201m-2	2	20				
Shooting Range Field	TF-201M-2.5	2.5	19	53.2	ND		
Shooting Range Field	TF-201N-0	0	589	1020	70.4	ND	
Shooting Range Field	TF-201N-0.5	0.5	392	732	33.2	ND	
Shooting Range Field	TF-201N-1	1	375	671	17.6	ND	
Shooting Range Field	TF-201N-1.5	1.5	111	82.6	1.43		
Shooting Range Field	TF-201N-2	2	62	51.1	1.56		
Shooting Range Field	TF-201N-2.5	2.5	24	56.7	0.050		
Shooting Range Field	TF-201S-0	0	675	1160	54.2	ND	
Shooting Range Field	TF-201S-0.5	0.5	613	1860	93.0	1.24	
Shooting Range Field	TF-201S-1	1	116	232	14.9	ND	
Shooting Range Field	TF-201s-1.5	1.5	27				
Shooting Range Field	TF-201s-2	2	30				
Shooting Range Field	TF-202M-0	0	486	1010	37.3	ND	
Shooting Range Field	TF-202M-0.5	0.5	375	922	39.9	ND	
Shooting Range Field	TF-202M-1	1	193	367	7.17	ND	
Shooting Range Field	TF-202M-1.5	1.5	214	778	14.0	ND	
Shooting Range Field	TF-202m-2	2	37				
Shooting Range Field	TF-202M-2.5	2.5	21	52.3	ND		
Shooting Range Field	TF-202N-0	0	409	1310	36.6	ND	
Shooting Range Field	TF-202N-0 DUP	0	433	516	13.4	0.173	
Shooting Range Field	TF-202N-0.5	0.5	637	1660	106	0.56	
Shooting Range Field	TF-202N-1	1	225	276	8.84	ND	
Shooting Range Field	TF-202N-1.5	1.5	107	95.9	5.26		
Shooting Range Field	TF-202N-2	2	71	70.4	2.61		
Shooting Range Field	TF-202N-2.5	2.5	24	52.0	0.050		
Shooting Range Field	TF-202S-0	0	964	1490	118	1.51	
Shooting Range Field	TF-202S-0 DUP	0	1106	1030	46.9	1.25	
Shooting Range Field	TF-202S-0.5	0.5	79	79.0	2.78		
Shooting Range Field	TF-202S-1	1	124	175	4.97	ND	
Shooting Range Field	TF-202s-1.5	1.5	29				
Shooting Range Field	TF-202s-2	2	41				
Shooting Range Field	TF-203M-0	0	840	1710	97.4	ND	
Shooting Range Field	TF-203M-0.5	0.5	149	255	8.08	ND	
Shooting Range Field	TF-203M-1	1	54	204	2.60	ND	

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	TF-203m-1.5	1.5	25				
Shooting Range Field	TF-203m-2	2	18				
Shooting Range Field	TF-203M-2.5	2.5	20	58.4	ND		
Shooting Range Field	TF-203N-0	0	659	1130	91.8	ND	
Shooting Range Field	TF-203N-0.5	0.5	364	2380	13.7	ND	
Shooting Range Field	TF-203N-1	1	229	345	31.1	ND	
Shooting Range Field	TF-203n-1.5	1.5	48				
Shooting Range Field	TF-203n-2	2	30				
Shooting Range Field	TF-203n-2 DUP	2	41				
Shooting Range Field	TF-203S-0	0	579	1300	64.7	0.59	
Shooting Range Field	TF-203S-0.5	0.5	424	892	37.7	ND	
Shooting Range Field	TF-203S-1	1	160	551	10.2	ND	
Shooting Range Field	TF-203s-1.5	1.5	37				
Shooting Range Field	TF-203s-2	2	26				
Shooting Range Field	TF-204M-0	0	536	843	45.7	ND	
Shooting Range Field	TF-204M-0.5	0.5	122	102	5.54	ND	
Shooting Range Field	TF-204m-1	1	38				
Shooting Range Field	TF-204m-1.5	1.5	33				
Shooting Range Field	TF-204m-2	2	25				
Shooting Range Field	TF-204m-2 DUP	2	35				
Shooting Range Field	TF-204M-2.5	2.5	15	61.8	0.19		
Shooting Range Field	TF-204N-0	0	946	1910	97.9	ND	
Shooting Range Field	TF-204N-0.5	0.5	80	86.0	5.35		
Shooting Range Field	TF-204N-1	1	73	91.5	3.31		
Shooting Range Field	TF-204n-1.5	1.5	31				
Shooting Range Field	TF-204n-2	2	40				
Shooting Range Field	TF-204S-0	0	579	894	53.4	ND	
Shooting Range Field	TF-204S-0.5	0.5	266	688	36.6	ND	
Shooting Range Field	TF-204S-1	1	419	664	36.6	ND	
Shooting Range Field	TF-204S-1.5	1.5	113	99.7	7.29		
Shooting Range Field	TF-204s-2	2	34				
Shooting Range Field	TF-205M-0	0	572	1040	71.8	0.51	
Shooting Range Field	TF-205M-0.5	0.5	92	53.5	3.42		
Shooting Range Field	TF-205M-1	1	270	32.4			
Shooting Range Field	TF-205m-1.5	1.5	21				
Shooting Range Field	TF-205m-2	2	47				
Shooting Range Field	TF-205M-2 DUP	2	37				
Shooting Range Field	TF-205M-2.5	2.5	21	61.0	0.08		
Shooting Range Field	TF-205N-0	0	567	993	69.6	ND	
Shooting Range Field	TF-205N-0.5	0.5	83	416	11.0	ND	
Shooting Range Field	TF-205N-1	1	121	163	5.77	ND	
Shooting Range Field	TF-205n-1.5	1.5	31				
Shooting Range Field	TF-205n-2	2	39				
Shooting Range Field	TF-205S-0	0	683	853	66.2	ND	
Shooting Range Field	TF-205S-0.5	0.5	66	116	9.05	ND	
Shooting Range Field	TF-205s-1	1	42				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	TF-205s-1.5	1.5	30				
Shooting Range Field	TF-205s-2	2	33				
Shooting Range Field	TF-223-0	0	630	697	31.7	0.233	
Shooting Range Field	TF-223-0.5	0.5	321	348	21.1	0.179	
Shooting Range Field	TF-223-1	1	238	337	8.37	0.103	
Shooting Range Field	TF-223-1.5	1.5	28				
Shooting Range Field	TF-223-2	2	14				
Shooting Range Field	TF-223-2.5	2.5	30				
Shooting Range Field	TF-223-3	3	27	55.4	0.07		
Shooting Range Field	TF-225-0	0	881	854	51.3	0.319	
Shooting Range Field	TF-225-0.5	0.5	75	148	3.58	ND	
Shooting Range Field	TF-225-1	1	43				
Shooting Range Field	TF-225-1.5	1.5	23				
Shooting Range Field	TF-225-2	2	26				
Shooting Range Field	TF-225-2.5	2.5	42				
Shooting Range Field	TF-225-3	3	30	65.1	0.17		
Shooting Range Field	TF-226-0	0	1148	1110	45.2	0.472	
Shooting Range Field	TF-226-0.5	0.5	75	93.7	3.46		
Shooting Range Field	TF-226-1	1	60	108	1.89	ND	
Shooting Range Field	TF-226-1.5	1.5	42				
Shooting Range Field	TF-226-2	2	47				
Shooting Range Field	TF-226-2.5	2.5	22				
Shooting Range Field	TF-226-3	3	19	57.6	0.56		
Shooting Range Field	TF-240-0.5	0.5	28	11.8			
Shooting Range Field	TF-246-0	0	1075	1430	35.6	0.393	
Shooting Range Field	TF-246-0.5	0.5	147	174	6.11	0.099	
Shooting Range Field	TF-246-1	1	93	242	6.11	ND	
Shooting Range Field	TF-246-1.5	1.5	39				
Shooting Range Field	TF-246-2	2	37				
Shooting Range Field	TF-246-2.5	2.5	28				
Shooting Range Field	TF-246-3	3	12	6.89			
Shooting Range Field	TF-247-0	0	640	793	24.1	0.360	
Shooting Range Field	TF-247-0.5	0.5	112	104	5.54	0.053	
Shooting Range Field	TF-247-1	1	168	191	7.62	0.098	
Shooting Range Field	TF-247-1.5	1.5	138	388	3.57	ND	
Shooting Range Field	TF-247-2	2	36				
Shooting Range Field	TF-247-2.5	2.5	32				
Shooting Range Field	TF-247-3	3	21	6.91			
Shooting Range Field	TF-265-0	0	191	187	6.11	0.063	
Shooting Range Field	TF-265-0.5	0.5	58	58.6	1.37		
Shooting Range Field	TF-265-1	1	50	37.3			
Shooting Range Field	TF-265-1.5	1.5	29				
Shooting Range Field	TF-265-2	2	20				
Shooting Range Field	TF-265-2.5	2.5	20				
Shooting Range Field	TF-265-3	3	19	7.80			
Shooting Range Field	TF-266-0	0	420	1230	15.3	0.291	

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	TF-266-0.5	0.5	224	333	6.79	0.084	
Shooting Range Field	TF-266-1	1	53	34.2			
Shooting Range Field	TF-266-1.5	1.5	14				
Shooting Range Field	TF-266-2	2	23				
Shooting Range Field	TF-266-2.5	2.5	22				
Shooting Range Field	TF-266-3	3	26	6.62			
Shooting Range Field	TF-267-0	0	642	698	23.0	0.256	
Shooting Range Field	TF-267-0.5	0.5	124	265	6.02	0.061	
Shooting Range Field	TF-267-1	1	84	93.2	5.37		
Shooting Range Field	TF-267-1.5	1.5	69	24.3			
Shooting Range Field	TF-267-2	2	24				
Shooting Range Field	TF-267-2.5	2.5	21				
Shooting Range Field	TF-267-3	3	24	10.6			
Shooting Range Field	TFF-355-A	3.5		7.16			
Shooting Range Field	TFF-355-B	3.5		8.24			
Shooting Range Field	TFF-355-C	3.5		7.82			
Shooting Range Field	TFF-355-D	3.5		7.47			
Shooting Range Field	TFF-355-E	3.5		6.76			
Shooting Range Field	TFF-355-F	3.5		8.16			
Shooting Range Field	TN-1M-0	0	281	347	35.8	0.546	
Shooting Range Field	TN-1M-0.5	0.5	64	42.9			
Shooting Range Field	TN-1m-1	1	27				
Shooting Range Field	TN-1M-1.5	1.5	106	14.9			
Shooting Range Field	TN-1m-2	2	27				
Shooting Range Field	TN-1N-0	0	361	323	29.5	0.291	
Shooting Range Field	TN-1N-0.5	0.5	244	174	19.9	0.096	
Shooting Range Field	TN-1n-1	1	34				
Shooting Range Field	TN-1n-1.5	1.5	27				
Shooting Range Field	TN-1N-2	2	82	25.7			
Shooting Range Field	TN-1n-2.5	2.5	21				
Shooting Range Field	TN-1S-0	0	153	124	11.0	ND	
Shooting Range Field	TN-1s-0.5	0.5	34				
Shooting Range Field	TN-1s-1	1	19				
Shooting Range Field	TN-1s-1.5	1.5	20				
Shooting Range Field	TN-1s-2	2	21				
Shooting Range Field	TN-2M-0	0	993	1650	117	1.86	
Shooting Range Field	TN-2M-0.5	0.5	1163	1500	250	2.57	
Shooting Range Field	TN-2M-1	1	908	1270	123	14.3	
Shooting Range Field	TN-2M-1.5	1.5	1387	2540	308	23.6	
Shooting Range Field	TN-2M-2	2	111	98.2	6.27		
Shooting Range Field	TN-2m-2.5	2.5	17				
Shooting Range Field	TN-2N-0	0	832	961	87.7	2.80	
Shooting Range Field	TN-2N-0.5	0.5	963	1680	105	2.98	
Shooting Range Field	TN-2N-1	1	1032	1400	96.2	1.59	
Shooting Range Field	TN-2N-1.5	1.5	1173	1690	152	17.6	
Shooting Range Field	TN-2N-2	2	203	274	53.6	0.462	

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Shooting Range Field	TN-2n-2.5	2.5	20				
Shooting Range Field	TN-2S-0	0	639	1090	89.3	4.06	
Shooting Range Field	TN-2S-0.5	0.5	940	1520	109	2.79	
Shooting Range Field	TN-2S-1	1	1270	1490	201	1.16	
Shooting Range Field	TN-2S-1.5	1.5	1042	1360	145	9.74	
Shooting Range Field	TN-2S-2	2	171	161	16.1	0.454	
Shooting Range Field	TN-2s-2.5	2.5	28				
Shooting Range Field	TN-3M-0	0	815	1470	74.9	3.05	
Shooting Range Field	TN-3M-0.5	0.5	1086	1880	156	8.21	
Shooting Range Field	TN-3M-1	1	1144	1480	164	10.9	
Shooting Range Field	TN-3M-1.5	1.5	113	102	10.3	0.115	
Shooting Range Field	TN-3m-2	2	39				
Shooting Range Field	TN-3N-0	0	872	1560	160	3.05	
Shooting Range Field	TN-3N-0.5	0.5	1499	2190	148	8.06	
Shooting Range Field	TN-3N-1	1	1045	5460	207	16.4	
Shooting Range Field	TN-3N-1.5	1.5	195	386	48.4	0.845	
Shooting Range Field	TN-3n-2	2	43				
Shooting Range Field	TN-3S-0	0	874	1070	140	2.38	
Shooting Range Field	TN-3S-0.5	0.5	1148	2640	138	4.27	
Shooting Range Field	TN-3S-1	1	1333	3010	243	27.4	
Shooting Range Field	TN-3S-1.5	1.5	561	2590	98.3	6.31	
Shooting Range Field	TN-3S-2	2	79	61.0	5.85		
Shooting Range Field	TN-3s-2.5	2.5	16				
Target Debris Field	HAT-1-0	0	<LOD				
Target Debris Field	HAT-1-0.5	0.5	<LOD				
Target Debris Field	HAT-1-1	1	<LOD				
Target Debris Field	HAT-1-1.5	1.5	<LOD				
Target Debris Field	HAT-2-0	0	17				
Target Debris Field	HAT-2-0.5	0.5	<LOD				
Target Debris Field	HAT-2-1	1	<LOD				
Target Debris Field	HAT-3-0	0	<LOD				
Target Debris Field	HAT-3-0.5	0.5	15				
Target Debris Field	HAT-3-1	1	<LOD				
Target Debris Field	HAT-3-1.5	1.5	<LOD				
Target Debris Field	HAT-3-2	2	15				
Target Debris Field	HAT-4-0	0	17				
Target Debris Field	HAT-4-0.5	0.5	20				
Target Debris Field	HAT-4-1	1	21				
Target Debris Field	HAT-4-1.5	1.5	15				
Target Debris Field	HAT-4-2	2	<LOD				
Target Debris Field	HAT-5-0	0	26				
Target Debris Field	HAT-5-0.5	0.5	<LOD				
Target Debris Field	HAT-5-1	1	13				
Target Debris Field	HAT-5-1.5	1.5	<LOD				
Target Debris Field	HAT-5-2	2	<LOD				
Target Debris Field	HAT-6-0	0	75				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Target Debris Field	HAT-6-0.5	0.5	39				
Target Debris Field	HAT-6-1	1	32				
Target Debris Field	HAT-7-0	0	14				
Target Debris Field	HAT-7-0.5	0.5	13				
Target Debris Field	HAT-7-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-7-1	1	<LOD				
Target Debris Field	HAT-7-1.5	1.5	12				
Target Debris Field	HAT-8-0	0	21				
Target Debris Field	HAT-8-0.5	0.5	17				
Target Debris Field	HAT-8-1	1	15				
Target Debris Field	HAT-8-1.5	1.5	14				
Target Debris Field	HAT-9-0	0	14				
Target Debris Field	HAT-9-0.5	0.5	<LOD				
Target Debris Field	HAT-9-1	1	<LOD				
Target Debris Field	HAT-10-0	0	33				
Target Debris Field	HAT-10-0.5	0.5	64	30.8			
Target Debris Field	HAT-10-0.5 DUP	0.5	24				
Target Debris Field	HAT-10-1	1	32				
Target Debris Field	HAT-11-0	0	<LOD				
Target Debris Field	HAT-11-0.5	0.5	12				
Target Debris Field	HAT-11-1	1	<LOD				
Target Debris Field	HAT-11-1.5	1.5	15				
Target Debris Field	HAT-11-2	2	14				
Target Debris Field	HAT-12-0	0	16				
Target Debris Field	HAT-13-0	0	<LOD				
Target Debris Field	HAT-13-0.5	0.5	16				
Target Debris Field	HAT-13-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-14A-0	0	52	26.8			
Target Debris Field	HAT-14A-0.5	0.5	<LOD				
Target Debris Field	HAT-14A-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-14B-0	0	20				
Target Debris Field	HAT-14B-0.5	0.5	<LOD				
Target Debris Field	HAT-14B-1	1	17				
Target Debris Field	HAT-15-0	0	<LOD				
Target Debris Field	HAT-15-0.5	0.5	<LOD				
Target Debris Field	HAT-15-1	1	<LOD				
Target Debris Field	HAT-16-0	0	23				
Target Debris Field	HAT-16-0.5	0.5	36	9.21			
Target Debris Field	HAT-16-1	1	17				
Target Debris Field	HAT-16-1.5	1.5	14				
Target Debris Field	HAT-16-2	2	<LOD				
Target Debris Field	HAT-17-0	0	<LOD				
Target Debris Field	HAT-17-0.5	0.5	<LOD				
Target Debris Field	HAT-17-0.5 DUP	0.5	18				
Target Debris Field	HAT-18-0	0	20				
Target Debris Field	HAT-18-0.5	0.5	14				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Target Debris Field	HAT-18-0.5 DUP	0.5	13				
Target Debris Field	HAT-18-1	1	18				
Target Debris Field	HAT-18-1.5	1.5	15				
Target Debris Field	HAT-18-2	2	<LOD				
Target Debris Field	HAT-19-0	0	30				
Target Debris Field	HAT-19-0.5	0.5	<LOD				
Target Debris Field	HAT-19-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-20-0	0	13				
Target Debris Field	HAT-20-0.5	0.5	<LOD				
Target Debris Field	HAT-20-0.5 DUP	0.5	27				
Target Debris Field	HAT-20-1	1	14				
Target Debris Field	HAT-20-1.5	1.5	18				
Target Debris Field	HAT-20-2	2	20				
Target Debris Field	HAT-20A-0	0	18				
Target Debris Field	HAT-20A-0.5	0.5	<LOD				
Target Debris Field	HAT-20A-1	1	17				
Target Debris Field	HAT-20A-1.5	1.5	<LOD				
Target Debris Field	HAT-20A-2	2	19				
Target Debris Field	HAT-21-0	0	27				
Target Debris Field	HAT-21-0.5	0.5	17				
Target Debris Field	HAT-21-1	1	<LOD				
Target Debris Field	HAT-21-1.5	1.5	32				
Target Debris Field	HAT-21-2	2	31				
Target Debris Field	HAT-22-0	0	14				
Target Debris Field	HAT-22-0.5	0.5	<LOD				
Target Debris Field	HAT-22-1	1	31				
Target Debris Field	HAT-22-1.5	1.5	<LOD				
Target Debris Field	HAT-23-0	0	23				
Target Debris Field	HAT-23-0.5	0.5	<LOD				
Target Debris Field	HAT-23-0.5 DUP	0.5	15				
Target Debris Field	HAT-23-1	1	13				
Target Debris Field	HAT-24-0	0	<LOD				
Target Debris Field	HAT-24-0.5	0.5	12				
Target Debris Field	HAT-24-1	1	32				
Target Debris Field	HAT-24-1.5	1.5	38				
Target Debris Field	HAT-24-2	2	32				
Target Debris Field	HAT-25-0	0	15				
Target Debris Field	HAT-25-0.5	0.5	15				
Target Debris Field	HAT-25-1	1	<LOD				
Target Debris Field	HAT-25-1.5	1.5	16				
Target Debris Field	HAT-25-2	2	20				
Target Debris Field	HAT-26-0	0	19				
Target Debris Field	HAT-26-0.5	0.5	15				
Target Debris Field	HAT-26-0.5 DUP	0.5	16				
Target Debris Field	HAT-26-1	1	<LOD				
Target Debris Field	HAT-26-1.5	1.5	15				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Target Debris Field	HAT-26-2	2	<LOD				
Target Debris Field	HAT-27-0	0	19				
Target Debris Field	HAT-27-0.5	0.5	21				
Target Debris Field	HAT-27-0.5 DUP	0.5	14				
Target Debris Field	HAT-27-1	1	18				
Target Debris Field	HAT-27-1.5	1.5	<LOD				
Target Debris Field	HAT-28-0	0	<LOD				
Target Debris Field	HAT-28-0.5	0.5	16				
Target Debris Field	HAT-28-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-28-1	1	<LOD				
Target Debris Field	HAT-28-1.5	1.5	<LOD				
Target Debris Field	HAT-28-2	2	13				
Target Debris Field	HAT-29-0	0	19				
Target Debris Field	HAT-29-0.5	0.5	20				
Target Debris Field	HAT-29-0.5 DUP	0.5	18				
Target Debris Field	HAT-29-1	1	17				
Target Debris Field	HAT-29-1.5	1.5	<LOD				
Target Debris Field	HAT-29-2	2	15				
Target Debris Field	HAT-30-0	0	13				
Target Debris Field	HAT-30-0.5	0.5	20				
Target Debris Field	HAT-30-0.5 DUP	0.5	21				
Target Debris Field	HAT-30-1	1	<LOD				
Target Debris Field	HAT-30-1.5	1.5	16				
Target Debris Field	HAT-30-2	2	19				
Target Debris Field	HAT-31-0	0	20				
Target Debris Field	HAT-31-0.5	0.5	25				
Target Debris Field	HAT-32-0	0	12				
Target Debris Field	HAT-32-0.5	0.5	<LOD				
Target Debris Field	HAT-32-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-32-1.5	1.5	16				
Target Debris Field	HAT-33-0	0	29				
Target Debris Field	HAT-33-0.5	0.5	22				
Target Debris Field	HAT-34-0	0	32				
Target Debris Field	HAT-34-0.5	0.5	<LOD				
Target Debris Field	HAT-34-1	1	17				
Target Debris Field	HAT-35-0	0	31				
Target Debris Field	HAT-35-0.5	0.5	20				
Target Debris Field	HAT-35-1	1	27				
Target Debris Field	HAT-35-1.5	1.5	22				
Target Debris Field	HAT-35-2	2	53	23.1			
Target Debris Field	HAT-36-0	0	16				
Target Debris Field	HAT-36-0.5	0.5	14				
Target Debris Field	HAT-37-0	0	<LOD				
Target Debris Field	HAT-37-0.5	0.5	<LOD				
Target Debris Field	HAT-37-1	1	16				
Target Debris Field	HAT-37-1.5	1.5	12				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Target Debris Field	HAT-37-2	2	16				
Target Debris Field	HAT-38-0	0	16				
Target Debris Field	HAT-38-0.5	0.5	20				
Target Debris Field	HAT-39-0	0	27				
Target Debris Field	HAT-39-0.5	0.5	38				
Target Debris Field	HAT-39-1.5	1.5	68	94.8	0.624		
Target Debris Field	HAT-39-2	2	24				
Target Debris Field	HAT-40-0	0	31				
Target Debris Field	HAT-40-0.5	0.5	<LOD				
Target Debris Field	HAT-41-0	0	<LOD				
Target Debris Field	HAT-41-0.5	0.5	13				
Target Debris Field	HAT-41-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-41-1	1	11				
Target Debris Field	HAT-41-1.5	1.5	15				
Target Debris Field	HAT-41-2	2	<LOD				
Target Debris Field	HAT-42-0	0	23				
Target Debris Field	HAT-42-0.5	0.5	29				
Target Debris Field	HAT-42-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-42-1	1	22				
Target Debris Field	HAT-42-1.5	1.5	18				
Target Debris Field	HAT-42-2	2	20				
Target Debris Field	HAT-43-0 g	0	46				
Target Debris Field	HAT-43-0 ng	0	48	29.7			
Target Debris Field	HAT-43-0.5 g	0.5	30				
Target Debris Field	HAT-43-0.5 ng	0.5	24	12.9			
Target Debris Field	HAT-43-1 g	1	22				
Target Debris Field	HAT-43-1 ng	1	22	7.19			
Target Debris Field	HAT-43-1.5 g	1.5	27				
Target Debris Field	HAT-43-1.5 ng	1.5	31	16.6			
Target Debris Field	HAT-43-2 g	2	36				
Target Debris Field	HAT-43-2 ng	2	53	36.9			
Target Debris Field	HAT-44-0	0	<LOD				
Target Debris Field	HAT-44-0.5	0.5	14				
Target Debris Field	HAT-44-0.5 DUP	0.5	19				
Target Debris Field	HAT-44-1	1	<LOD				
Target Debris Field	HAT-45-0	0	12				
Target Debris Field	HAT-45-0.5	0.5	<LOD				
Target Debris Field	HAT-45-1	1	<LOD				
Target Debris Field	HAT-45-1.5	1.5	<LOD				
Target Debris Field	HAT-46-0	0	28				
Target Debris Field	HAT-46-0.5	0.5	18				
Target Debris Field	HAT-46-0.5 DUP	0.5	15				
Target Debris Field	HAT-46-1	1	<LOD				
Target Debris Field	HAT-47-0	0	91	74.8	2.90		
Target Debris Field	HAT-47-0.5	0.5	12				
Target Debris Field	HAT-47-1	1	20				

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Target Debris Field	HAT-47-1.5	1.5	16				
Target Debris Field	HAT-47-2	2	14				
Target Debris Field	HAT-48-0	0	22				
Target Debris Field	HAT-48-0.5	0.5	13				
Target Debris Field	HAT-48-1	1	<LOD				
Target Debris Field	HAT-49-0	0	71	63.3	2.24		
Target Debris Field	HAT-49-0.5	0.5	41				
Target Debris Field	HAT-49-0.5 DUP	0.5	32				
Target Debris Field	HAT-50-0	0	39				
Target Debris Field	HAT-50-0.5	0.5	17				
Target Debris Field	HAT-51-0	0	17				
Target Debris Field	HAT-51-0.5	0.5	20				
Target Debris Field	HAT-51-1	1	14				
Target Debris Field	HAT-51-1.5	1.5	12				
Target Debris Field	HAT-51-2	2	14				
Target Debris Field	HAT-52-0	0	35				
Target Debris Field	HAT-52-0.5	0.5	<LOD				
Target Debris Field	HAT-52-0.5 DUP	0.5	<LOD				
Target Debris Field	HAT-52-1	1	<LOD				
Target Debris Field	HAT-56-0	0	35				
Target Debris Field	HAT-56-0.5	0.5	<LOD				
Target Debris Field	HAT-56-0.5 DUP	0.5	16				
Target Debris Field	HAT-57-0	0	84	64200	239	14.5	
Target Debris Field	HAT-57-0.5	0.5	40				
Target Debris Field	HAT-57-1	1	41				
Target Debris Field	HAT-57-1.5	1.5	20				
Target Debris Field	HAT-57-2	2	24				
Target Debris Field	HAT-57A-0.5	0.5		14.4			
Target Debris Field	HAT-58-0	0	54	43.7			
Target Debris Field	HAT-58-0.5	0.5	24				
Target Debris Field	HAT-58-0.5 DUP	0.5	12				
Target Debris Field	HAT-58-1	1	<LOD				
Target Debris Field	HAT-58-1.5	1.5	15				
Target Debris Field	HAT-59-0	0	66	50.0	1.55		
Target Debris Field	HAT-59-0.5	0.5	181				
Target Debris Field	HAT-59-0.5 DUP	0.5	58	33.3			
Target Debris Field	HAT-59-1	1	30				
Target Debris Field	HAT-60-0	0	45	302	7.30	ND	
Target Debris Field	HAT-60-0.5	0.5	30				
Target Debris Field	HAT-60-1	1	21				
Target Debris Field	HAT-60-1.5	1.5	13				
Target Debris Field	HAT-60-2	2	22				
Target Debris Pile	HAP-1-1	1	258	296	27.7	ND	
Target Debris Pile	HAP-1-3	3	24				
Target Debris Pile	HAP-1-5	5	27				
Target Debris Pile	HAP-2-1	1	149	171	6.88	ND	

Table 2-3

Laboratory Results for Lead in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Total Lead XRF Method 6200 (mg/kg)	Total Lead Method 6000 Series (mg/kg)	Soluble Lead WET (mg/kg)	Soluble Lead TCLP (mg/kg)	Soluble Lead SPLP (mg/kg)
Target Debris Pile	HAP-2-3	3	171	244	4.16	ND	
Target Debris Pile	HAP-2-5	5	203	139	4.97	ND	
Target Debris Pile	HAP-3-1	1	149	143	6.77	0.012	
Target Debris Pile	HAP-3-3	3	211	82.4	5.31		
Target Debris Pile	HAP-3-5	5	239	574	5.53	ND	
Target Debris Pile	HAP-4-1	1	360	1420	24.2	ND	
Target Debris Pile	HAP-4-3	3	255	268	9.66	ND	
Target Debris Pile	HAP-4-5	5	142	144	ND	ND	
Target Debris Pile	HAP-5-1	1	678	2140	38.6	0.041	
Target Debris Pile	HAP-5-3	3	123	140	4.76	ND	
Target Debris Pile	HAP-5-5	5	25				
Target Debris Pile	HAP-6-1	1	29				
Target Debris Pile	HAP-6-3	3	24				
Target Debris Pile	HAP-6-5	5	28				
Target Debris Pile on Asphalt	SP-13-1			22300	235	0.314	
Target Debris Pile on Asphalt	SP-13-2			403	1.52	0.114	
Target Debris Pile on Asphalt	SP-13-3			202	4.09	0.158	
Target Debris Pile on Asphalt	SP-13-4			243	81.0	0.094	
Target Debris Pile on Asphalt	Target Fragments			19.3			
White Material	SB-2-0	0		5.33			
White Material	SB-5-3	3		6.80			
White Material	SB-20-2	2		51.3			
White Material	SB-20-5.5	5.5		11.3			

Notes:
WET = Waste Extraction Test
TCLP = Toxicity Characteristic Leaching Procedure
SPLP =Synthetic Precipitation Leaching Procedure
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
<LOD and ND = not detected above laboratory detection limit

Table 2-4

Laboratry Results for Detected SVOCs in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Acena-phthene (ug/mg)	Anthra-cene (ug/kg)	Benzo(a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluor-anthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluor-anthene (ug/kg)	bis(2-Ethyl hexyl) phthalate (ug/kg)	Butyl benzyl phthalate (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Indeno (1,2,3 -c,d)pyrene (ug/kg)	Naph-thalene (ug/kg)	Pyrene (ug/kg)
Berm	HAB-2-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-2A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-3B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-5A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-6B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-8A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-9A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-11B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-13-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-15A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-15B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-16B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-17A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-17A-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-18B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-19-0.25	0.25	ND	ND	329	356	423	222 J	275 J	ND	ND	365	ND	427	205 J	ND	392
Berm	HAB-20A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-20A-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-21B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-23A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAB-24B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAT-53-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAT-54-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Berm	HAT-55-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Median	HAG-3-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Median	HAG-6-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Median	HAG-9-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-3-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-45-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-66-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2-4

Laboratry Results for Detected SVOCs in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Acena-phthene (ug/mg)	Anthra-cene (ug/kg)	Benzo(a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluor-anthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluor-anthene (ug/kg)	bis(2-Ethyl hexyl) phthalate (ug/kg)	Butyl benzyl phthalate (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Indeno (1,2,3 -c,d)pyrene (ug/kg)	Naph-thalene (ug/kg)	Pyrene (ug/kg)
Shooting Range Field	HAF-86-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-87-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-87-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-89-0.25	0.25	ND	ND	3300	4860	ND	ND	ND	ND	ND	4850	ND	ND	ND	ND	3660
Shooting Range Field	HAF-92-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-102-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-103-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-109-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-112-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-130-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-130-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-132-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-135-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-138-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-141-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-143-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-146-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-146-0.25 QA/QC	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-151-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-154-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-159-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-162-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-164-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-165-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-174-0.25	0.25	5930	2610	31900	59900	ND	33200	82200	ND	ND	38800	11000	27400	31800	ND	35900
Shooting Range Field	HAF-177-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-180-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-183-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-194-0.25	0.25	14100	5990	81800	95100	ND	83800	205000	ND	ND	93100	29400	52000	81700	ND	77500
Shooting Range Field	HAF-198-0.25	0.25	6260	5960	42600	44400	ND	38000	97700	ND	ND	46800	13400	39500	37700	ND	48100

Table 2-4

Laboratry Results for Detected SVOCs in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Acena-phthene (ug/mg)	Anthra-cene (ug/kg)	Benzo(a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluor-anthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluor-anthene (ug/kg)	bis(2-Ethyl hexyl) phthalate (ug/kg)	Butyl benzyl phthalate (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Indeno (1,2,3 -c,d)pyrene (ug/kg)	Naph-thalene (ug/kg)	Pyrene (ug/kg)
Shooting Range Field	HAF-198-0.25 DUP	0.25	14500	37100	102000	96400	ND	80800	218000	ND	ND	121000	20100	101000	79100	ND	133000
Shooting Range Field	HAF-200-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-204-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-209-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-215-0.25	0.25	ND	ND	ND	327	ND	ND	ND	ND	ND	374	ND	ND	ND	ND	269
Shooting Range Field	HAF-218-0.25	0.25	5040	ND	26700	31000	ND	30600	60100	ND	ND	31200	6560	17000	27500	ND	25400
Shooting Range Field	HAF-221-0.25	0.25	ND	ND	4170	8600	ND	6310	10400	ND	ND	4980	2760	3260	5720	ND	3970
Shooting Range Field	HAF-224-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-227-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-227-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-228-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-229-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	3330	761	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-240-0.25	0.25	ND	ND	21200	25300	ND	19300	40100	ND	ND	28500	15900	13800	14400	ND	25400
Shooting Range Field	HAF-241-0.25	0.25	ND	ND	867000	1390000	ND	817000	1540000	ND	ND	1120000	423000	773000	681000	ND	1050000
Shooting Range Field	HAF-244-0.25	0.25	ND	ND	1100	2260	ND	1630	2880	ND	ND	1310	ND	879	1440	ND	1130
Shooting Range Field	HAF-247-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-263-0.25	0.25	ND	ND	891000	1250000	ND	683000	1660000	ND	ND	1100000	234000	1120000	677000	ND	1290000
Shooting Range Field	HAF-266-0.25	0.25	ND	ND	126000	233000	ND	155000	273000	ND	ND	164000	73400	105000	134000	ND	140000
Shooting Range Field	HAF-272-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-286-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-289-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-290-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-291-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-292-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-292-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-330-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-331-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	HAF-335-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-89-1	1	ND	ND	659	698	ND	382	ND	ND	ND	970	ND	ND	ND	ND	884
Shooting Range Field	TF-89-1.5	1.5	ND	ND	283 J	341	ND	ND	ND	ND	ND	472	ND	ND	ND	ND	392

Table 2-4

Laboratry Results for Detected SVOCs in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Acena-phthene (ug/mg)	Anthra-cene (ug/kg)	Benzo(a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluor-anthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluor-anthene (ug/kg)	bis(2-Ethyl hexyl) phthalate (ug/kg)	Butyl benzyl phthalate (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Indeno (1,2,3 -c,d)pyrene (ug/kg)	Naph-thalene (ug/kg)	Pyrene (ug/kg)
Shooting Range Field	TF-89-2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-174-1	1	ND	ND	429	827	544	540	513	ND	ND	597	ND	ND	441	ND	524
Shooting Range Field	TF-174-1.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-194M-1A	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-194M-2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-198M-1A	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-215-1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-218-1	1	ND	ND	6890	10300	5740	8230	5400	ND	ND	8500	3380	3640	6290	ND	7790
Shooting Range Field	TF-218-1.5	1.5	793	ND	5980	6130	7150	6710	4640	ND	ND	7650	3750	4070	5620	ND	7120
Shooting Range Field	TF-218-2	2	ND	349	1110	1890	1160	1130	861	ND	ND	1350	535	765	925	ND	1270
Shooting Range Field	TF-218-2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-221-1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-240-1	1	ND	ND	917	1140	587	808	512	ND	ND	1170	294	503	511	ND	1270
Shooting Range Field	TF-240-1.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-241-1	1	1990	1650	17200	21700	28600	13000	32700	ND	ND	20100	2860	14400	10500	ND	27000
Shooting Range Field	TF-241-1.5	1.5	1440	1430	15700	18700	ND	10300	24000	ND	ND	17200	2190	9920	8680	305 J	22000
Shooting Range Field	TF-241-2	2	ND	ND	428	642	367	398	369	ND	ND	585	ND	327 J	312 J	ND	613
Shooting Range Field	TF-241-2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-244-1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-244-1.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-263-1	1	ND	462	3300	4340	3010	3000	2830	ND	ND	4060	1260	3420	2600	ND	4660
Shooting Range Field	TF-263-1.5	1.5	841	806	9530	6740	8870	4540	6930	ND	ND	10900	2610	7230	4280	ND	12600
Shooting Range Field	TF-263-2	2	ND	ND	1150	1740	1130	1110	993	ND	ND	1510	507	1410	954	ND	1740
Shooting Range Field	TF-263-2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Shooting Range Field	TF-266-1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-01-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-02-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-03-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-04-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-05-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2-4

Laboratry Results for Detected SVOCs in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Acena-phthene (ug/mg)	Anthra-cene (ug/kg)	Benzo(a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluor-anthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluor-anthene (ug/kg)	bis(2-Ethyl hexyl) phthalate (ug/kg)	Butyl benzyl phthalate (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Indeno (1,2,3 -c,d)pyrene (ug/kg)	Naph-thalene (ug/kg)	Pyrene (ug/kg)
Target Debris Field	HAT-06-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-07-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-08-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-09-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-10-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-11-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-12-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-13-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-14A-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-14A-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-14B-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-15-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-16-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-17-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-17-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-18-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-19-0.25	0.25	ND	ND	547 J	898	ND	ND	ND	ND	ND	999	ND	ND	ND	ND	ND
Target Debris Field	HAT-19A-1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-20-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-21-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-22-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-23-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-24-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-25-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-26-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-27-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-28-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-29-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-30-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-30-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2-4

Laboratry Results for Detected SVOCs in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Acena-phthene (ug/mg)	Anthra-cene (ug/kg)	Benzo(a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluor-anthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluor-anthene (ug/kg)	bis(2-Ethyl hexyl) phthalate (ug/kg)	Butyl benzyl phthalate (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Indeno (1,2,3 -c,d)pyrene (ug/kg)	Naph-thalene (ug/kg)	Pyrene (ug/kg)
Target Debris Field	HAT-31-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-32-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-33-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-34-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-35-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-36-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-37-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-37-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-38-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-39-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-40-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-41-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-42-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-43-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-43-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-44-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-45-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-46-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-47-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-48-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-49-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-50-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-50-0.25 DUP	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-51-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-52-0.25	0.25	ND	ND	786	940	ND	709	1460	ND	ND	881	ND	935	629	ND	914
Target Debris Field	HAT-52A-1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-56-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-57-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-58-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Field	HAT-59-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2-4

Laboratry Results for Detected SVOCs in Soil
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Acena-phthene (ug/mg)	Anthra-cene (ug/kg)	Benzo(a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluor-anthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluor-anthene (ug/kg)	bis(2-Ethyl hexyl) phthalate (ug/kg)	Butyl benzyl phthalate (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Indeno (1,2,3 -c,d)pyrene (ug/kg)	Naph-thalene (ug/kg)	Pyrene (ug/kg)
Target Debris Field	HAT-60-0.25	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Pile	HAP-1-1.5	1.5	31300	15900	233000	200000	314000	84400	395000	ND	ND	235000	56000	12400	84400	4360	239000
Target Debris Pile	HAP-1-3.5	3.5	ND	ND	ND	434	ND	ND	315 J	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Pile	HAP-1-5.5	5.5	ND	ND	490	959	600	529	591	ND	ND	633	487	394	470	ND	610
Target Debris Pile	HAP-2-1.5	1.5	5060	6980	101000	65800	ND	19900	54100	ND	ND	123000	4870	20200	11600	ND	119000
Target Debris Pile	HAP-2-3.5	3.5	9110	4600	57400	89000	ND	42000	131000	ND	ND	61300	10600	36600	42000	2320	60500
Target Debris Pile	HAP-2-5.5	5.5	ND	21200	211000	208000	256000	74500	431000	ND	ND	ND	28800	127000	73700	ND	252000
Target Debris Pile	HAP-3-1.5	1.5	ND	ND	68400	72900	ND	ND	109000	ND	ND	90500	ND	28100	ND	ND	80900
Target Debris Pile	HAP-3-3.5	3.5	ND	12100 J	141000	147000	ND	63600	322000	ND	ND	172000	35400	74200	53700	ND	169000
Target Debris Pile	HAP-3-5.5	5.5	36500	17200 J	186000	190000	ND	99300	490000	ND	ND	215000	32000	128000	111000	ND	219000
Target Debris Pile	HAP-4-1.5	1.5	10600 J	7700 J	91300	92400	ND	27800	160000	ND	ND	118000	ND	39300	28700	ND	101000
Target Debris Pile	HAP-4-3.5	3.5	102000	43100	542000	586000	ND	313000	1710000	ND	ND	609000	163000	320000	264000	ND	565000
Target Debris Pile	HAP-4-5.5	5.5	115000	58200	660000	515000	ND	108000	1700000	ND	ND	717000	87700	512000	173000	ND	801000
Target Debris Pile	HAP-5-1.5	1.5	118000	55800	697000	489000	ND	214000	1690000	ND	ND	704000	105000	8300 J	182000	26600	722000
Target Debris Pile	HAP-5-3.5	3.5	ND	ND	768	841	ND	505	2100	ND	ND	967	ND	674	ND	ND	1230
Target Debris Pile	HAP-5-5.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Pile	HAP-6-1.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Pile	HAP-6-3.5	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Pile	HAP-6-5.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Target Debris Pile on Asphalt	SP-13-1		ND	ND	142	327	212	163	239	ND	ND	192	ND	ND	220	ND	209
Target Debris Pile on Asphalt	SP-13-2		ND	ND	361	747	429	353	497	ND	ND	452	107	257	400	ND	440
Target Debris Pile on Asphalt	SP-13-3		ND	ND	419	850	505	436	567	ND	ND	502	130	333	481	ND	494
Target Debris Pile on Asphalt	SP-13-4		ND	ND	334	725	433	424	492	ND	ND	403	124	240	463	ND	365
Target Debris Pile on Asphalt	Target Fragments		105	217	1480	2580	1660	1300	1610	ND	ND	1620	373	1640	1400	ND	1690

Notes: ug/kg = micrograms per kilogram
ND = not detected above laboratory detection limit
SVOCs = semi-volatile organic compounds
J = value is between the method detection limit and reporting limit

Table 2-11

Laboratory Results for Perchlorate in Soil, White Material, and Mission Valley Formation
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Sample Date	EPA Laboratory Method	Laboratory Comment	Result	Detection Limit	Units	Material Type
White Material	SB-2-0	0	6/28/04	314	--	ND	0.04	mg/kg	White Material
White Material	SB-2-3	3	6/28/04	314	--	ND	0.04	mg/kg	Soil
White Material	SB-2-5.5	5.5	6/28/04	314	--	ND	0.04	mg/kg	Soil
White Material	SB-5-0	0	6/28/04	314	--	ND	0.04	mg/kg	White Material
White Material	SB-5-1.5	1.5	6/28/04	314	--	ND	0.04	mg/kg	Soil
White Material	SB-5-3	3	6/28/04	314	--	ND	0.04	mg/kg	White Material
White Material	SB-5-5.5	5.5	6/28/04	314	--	ND	0.04	mg/kg	Soil
White Material	SB-20-1.5	1.5	6/29/04	314	--	ND	0.04	mg/kg	Soil
White Material	SB-20-2	2	6/29/04	314	--	ND	0.04	mg/kg	White Material
White Material	SB-20-5	5	6/29/04	314	--	ND	0.04	mg/kg	White Material
White Material	SB-20-5.5	5.5	6/29/04	314	--	ND	0.04	mg/kg	White Material
White Material	HAWM-1	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	71	2	ug/l	White Material
White Material	HAWM-1	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	118	3.3	ug/kg	White Material
White Material	HAWM-1	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	123	3.5	ug/kg	White Material
White Material	HAWM-2	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	36	2	ug/l	White Material
White Material	HAWM-2	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	55.8	3.1	ug/kg	White Material
White Material	HAWM-2	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	57.4	3.2	ug/kg	White Material
White Material	HAWM-3	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	50	2	ug/l	White Material
White Material	HAWM-3	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	86.2	3.4	ug/kg	White Material
White Material	HAWM-3	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	88	3.5	ug/kg	White Material
White Material	HAWM-4	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	17	2	ug/l	White Material
White Material	HAWM-4	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	28.3	3.3	ug/kg	White Material
White Material	HAWM-4	0	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	29.2	3.4	ug/kg	White Material
White Material	T-E-0.5	0.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	21	2	ug/l	White Material
White Material	T-E-0.5	0.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	30.3	2.9	ug/kg	White Material
White Material	T-E-0.5	0.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	35.1	3.3	ug/kg	White Material
White Material	T-F-0.5	0.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	17	2	ug/l	White Material
White Material	T-F-0.5	0.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	23.8	2.8	ug/kg	White Material
White Material	T-F-0.5	0.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	27	3.2	ug/kg	White Material
White Material	T-G-3	3	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	6.9 J	10	ug/l	Soil
White Material	T-G-3	3	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	9.8 J	14.1	ug/kg	Soil
White Material	T-G-3	3	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	10.6 J	15.4	ug/kg	Soil

Table 2-11

Laboratory Results for Perchlorate in Soil, White Material, and Mission Valley Formation
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Sample Date	EPA Laboratory Method	Laboratory Comment	Result	Detection Limit	Units	Material Type
White Material	T-E-4.5	4.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	56	2	ug/l	White Material
White Material	T-E-4.5	4.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	92.8	3.3	ug/kg	White Material
White Material	T-E-4.5	4.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	107	3.8	ug/kg	White Material
White Material	T-F-4.5	4.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	White Material
White Material	T-F-4.5	4.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	3.1	ug/kg	White Material
White Material	T-F-4.5	4.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3.7	ug/kg	White Material
White Material	T-G-5.5	5.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	saturation extract	2.1	2	ug/l	Soil
White Material	T-G-5.5	5.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	wet-weight value	3	2.8	ug/kg	Soil
White Material	T-G-5.5	5.5	7/19/04	314, USDA 60, Chap6(2)&(3a)	dry-weight value	3.5	3.3	ug/kg	Soil
Mission Valley Fm.	HAMV-1	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-1	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-1	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	2.5	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-2	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3.3	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-2	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-2	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	2.6	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-3	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3.9	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-3	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-3	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	3.3	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-4	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3.4	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-4	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-4	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	2.5	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-5	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	86.3	16.5	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-5	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	52.2	10	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-5	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	72.6	13.9	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-6	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	16.3	3.6	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-6	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	9.1	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-6	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	12.2	2.7	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-7	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3.3	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-7	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-7	--	1/19/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	2.5	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-8	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	16	3.4	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-8	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	9.3	2	ug/l	Soil, Carbonate Rock

Table 2-11

Laboratory Results for Perchlorate in Soil, White Material, and Mission Valley Formation
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Sample Date	EPA Laboratory Method	Laboratory Comment	Result	Detection Limit	Units	Material Type
Mission Valley Fm.	HAMV-8	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	12.6	2.7	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-9	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3.1	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-9	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-9	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	2.6	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-10	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value, J	1.8 J	3.4	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-10	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	saturation extract, J	1 J	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-10	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value, J	1.3 J	2.6	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-11	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3.9	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-11	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-11	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	3.1	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-12	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	40.2	3.3	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-12	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	24.4	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-12	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	38.7	3.2	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-13	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value, J	2.0 J	3.1	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-13	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	saturation extract, J	1.3 J	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-13	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value, J	1.6 J	2.5	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-14	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-14	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-14	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	2.6	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-15	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	dry-weight value	ND	3	ug/kg	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-15	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	saturation extract	ND	2	ug/l	Soil, Carbonate Rock
Mission Valley Fm.	HAMV-15	--	1/20/05	314, USDA 60, Chap6(2)&(3a)	wet-weight value	ND	2.6	ug/kg	Soil, Carbonate Rock
					Average value in White Material, dry-weight value:	58.3			

Notes:
mg/kg = milligrams per kilogram
ug/l = milligrams per liter
ug/kg = milligrams per kilogram
ND = not detected above laboratory detection limit
314 = United States Environmental Protection Agency Method 314
USDA 60, Chap6(2)&(3a) = United States Department of Agriculture, Agriculture Handbook 60, Chapter 6, (2) Saturated Soil Paste, and (3a) Saturation Extract
J = value is between method detection limit and reporting limit
Average in White Material calculated using 0 for reported NDs. Only concentrations from USDA 60 extraction used in the calculation.
-- = not applicable
Fm. = formation

Table 2-12
Laboratory Analysis For White Material
Total Metals
Former Otay Skeet and Trap Shooting Range

Sample ID	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SB-2-0	ND	4.53	78.6	0.34	0.37	14.2	3.63	7.03	5.33	ND	0.80	20.7	0.69	ND	ND	44.5	23.4
SB-20-2	ND	11.7	99.3	0.53	ND	7.51	5.09	6.73	51.3	ND	0.69	4.70	ND	ND	ND	28.7	40.4
SB-20-5.5	ND	4.87	75.6	ND	ND	13.1	3.18	14.4	11.3	ND	0.69	8.99	ND	ND	ND	31.5	28.8
SB-5-3	ND	3.73	64.9	0.29	0.34	12.4	3.40	8.25	6.80	ND	1.19	8.84	ND	ND	ND	29.9	27.7

Notes:
mg/kg = milligrams per kilogram
ND = not detected above laboratory detection limits.

Table 2-14
Laboratory Analysis For Wood Debris Pile Samples
Total Metals and Soluble Metals
Former Otay Skeet and Trap Shooting Range

Sample ID	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	WET Soluble Chromium (mg/L)	TCLP Soluble Chromium (mg/L)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	WET Soluble Lead (mg/L)	TCLP Soluble Lead (mg/L)	Mercury (mg/kg)	WET Soluble Mercury (mg/L)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)	WET Soluble Zinc (mg/L)
WPS-1	ND	5.66	61.8	0.184	0.349	10.2	--	--	2.41	22.9	93.9	0.25	ND	ND	--	0.766	4.12	ND	ND	ND	15.5	129	--
WPS-2	ND	1.82	78.4	0.202	0.343	9.13	--	--	2.55	17.7	34.7	--	--	0.14	--	0.737	4.53	ND	ND	ND	17.7	117	--
WPS-3	ND	ND	36.4	ND	0.134	4.53	--	--	1.51	10.8	16.6	--	--	ND	--	0.632	2.38	ND	ND	ND	9.55	53.8	--
WPS-4	ND	ND	15.9	ND	ND	1.33	--	--	0.433	6.25	5.36	--	--	ND	--	0.476	0.745	0.971	ND	ND	3.49	21.3	--
WPS-5	1.94	0.843	34.0	ND	0.375	3.56	--	--	1.27	16.2	18.3	--	--	ND	--	ND	2.00	ND	ND	ND	2.67	98.8	--
WPS-6	ND	1.52	65.0	ND	1.26	5.92	--	--	2.70	20.8	58.9	0.57	ND	ND	--	0.797	3.43	ND	0.625	ND	13.3	115	--
WPS-7	ND	ND	24.3	ND	0.222	4.40	--	--	1.02	6.96	35.0	--	--	ND	--	0.490	2.06	ND	ND	ND	4.35	58.5	--
WPS-8	ND	ND	2.43	ND	ND	0.314	--	--	0.121	9.37	1.26	--	--	ND	--	ND	ND	ND	ND	ND	0.586	4.86	--
WPS-9	ND	3.61	28.9	ND	0.195	141	--	--	1.36	9.42	21.5	--	--	ND	--	0.727	2.13	ND	ND	ND	6.98	464	--
WPS-10	ND	ND	91.7	ND	0.496	8.66	--	--	0.774	7.30	144	2.72	0.063	ND	--	ND	1.98	ND	ND	ND	3.26	163	--
WPS-11	ND	2.33	65.0	ND	0.508	9.05	--	--	2.59	20.4	90.3	1.02	ND	ND	--	1.15	3.74	ND	ND	ND	14.1	128	--
WPS-12	ND	2.31	53.9	ND	0.657	5.66	--	--	2.33	17.8	49.4	--	--	ND	--	1.04	4.66	ND	0.265	ND	10.8	137	--
WPS-13	ND	2.43	93.4	0.170	0.498	13.1	--	--	3.24	86.8	66.4	1.80	ND	0.26	--	0.973	4.20	ND	ND	ND	16.5	168	--
WPS-14	ND	1.39	13.2	ND	0.079	1.97	--	--	0.693	5.12	21.8	--	--	1.30	--	0.531	1.11	ND	ND	ND	3.72	113	--
WPS-15	ND	5.63	77.4	0.222	0.576	11.3	--	--	3.69	32.9	33.7	--	--	ND	--	1.29	6.47	ND	ND	ND	22.4	111	--
WPS-16	ND	ND	47.8	ND	0.078	1.18	--	--	0.606	21.7	5.84	--	--	ND	--	0.663	1.82	0.582	ND	ND	3.45	27.1	--
WPS-17	ND	0.748	67.7	ND	0.251	3.21	--	--	2.02	14.4	31.7	--	--	ND	--	0.808	3.13	ND	ND	ND	8.37	73.4	--
WPS-18	ND	ND	26.5	ND	0.361	4.31	--	--	20.3	4.88	339	2.08	0.091	3.27	ND	0.880	1.12	ND	ND	ND	2.46	559	--
WPS-19	ND	166	86.1	0.197	0.397	8.92	--	--	2.65	65.7	37.4	--	--	0.15	--	0.892	3.75	ND	0.773	ND	15.5	95.0	--
WPS-20	ND	ND	13.6	ND	0.101	1.12	--	--	0.498	6.82	5.64	--	--	ND	--	1.30	1.07	ND	ND	ND	3.97	25.7	--
WPS-21	ND	ND	23.8	ND	ND	1.03	--	--	0.333	3.26	2.61	--	--	ND	--	ND	0.865	ND	ND	ND	1.95	69.7	--
WPS-22	ND	3.39	53.2	0.180	0.244	10.1	--	--	3.12	20.9	19.8	--	--	ND	--	1.27	3.79	ND	ND	ND	19.9	59.1	--
WPS-23	ND	ND	8.07	ND	ND	1.52	--	--	0.115	2.95	0.400	--	--	ND	--	ND	1.02	ND	0.157	ND	0.858	9.64	--
WPS-24	ND	ND	14.2	ND	ND	1.31	--	--	0.246	2.33	2.67	--	--	ND	--	ND	1.07	ND	ND	ND	1.05	29.9	--
WPS-25	ND	ND	180	ND	0.067	3.30	--	--	0.810	6.78	9.35	--	--	ND	--	0.828	3.79	ND	ND	ND	5.14	53.1	--
WPS-26	ND	1.25	55.6	ND	0.208	6.78	--	--	2.61	16.6	16.7	--	--	ND	--	1.32	3.19	ND	0.128	ND	17.4	61.9	--
WPS-27	ND	0.744	94.8	ND	1.09	6.35	--	--	1.41	11.3	68.2	4.35	ND	0.97	--	0.502	3.83	ND	ND	ND	2.87	179	--
WPS-28	ND	0.905	37.4	ND	0.103	5.38	--	--	1.14	17.6	16.3	--	--	0.16	--	0.696	2.27	ND	ND	ND	7.81	66.6	--
WPS-29	ND	1.72	48.2	ND	0.481	8.93	--	--	3.75	22.5	20.1	--	--	ND	--	1.05	5.16	ND	ND	ND	18.0	111	--
WPS-30	ND	ND	33.4	ND	0.128	3.53	--	--	1.23	9.13	23.2	--	--	ND	--	0.666	1.72	ND	0.194	ND	6.91	67.6	--
WPS-31	ND	1.61	59.6	ND	0.607	428	5.72	0.2	2.74	49.6	33.1	0.13	--	0.16	--	1.03	7.22	ND	ND	ND	19.4	2720	294
WPS-32	1.65	ND	16.1	ND	5.76	2.81	--	--	0.413	11.8	10.1	--	--	0.37	--	0.496	6.06	ND	ND	ND	1.76	50.0	--

Notes:
WET = waste extraction test
TCLP = Federal Toxicity Characteristic Leaching Procedure
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
ND = not detected above laboratory detection limits.
-- = not analyzed

Table 2-15
Laboratory Analysis For Wood Debris Pile Samples
Petroleum Hydrocarbon Chain and Fish Bioassay Analysis
Former Otay Skeet and Trap Shooting Range

Sample ID	C06 - C10 (mg/kg)	C10 - C22 (mg/kg)	C22 - C36 (mg/kg)	Fish Bioassay - Adult (mg/L)
WPS-1	7.2	27	147	--
WPS-2	40	74	418	--
WPS-3	8.0	13	85	--
WPS-4	151	102	994	--
WPS-5	8.2	15	161	--
WPS-6	ND	51	337	--
WPS-7	8.0	45	476	--
WPS-8	96	90	730	--
WPS-9	20	82	1000	--
WPS-10	13	25	155	--
WPS-11	ND	54	441	--
WPS-12	45	92	391	--
WPS-13	ND	91	677	--
WPS-14	11	24	176	--
WPS-15	472	14000	6630	> 750
WPS-16	11	36	1370	--
WPS-17	8.4	21	520	--
WPS-18	ND	ND	48	--
WPS-19	7.0	10	30	--
WPS-20	ND	39	504	--
WPS-21	10	24	555	--
WPS-22	10	11	63	--
WPS-23	2260	2780	9090	> 750
WPS-24	236	210	ND	--
WPS-25	ND	10	93	--
WPS-26	ND	43	175	--
WPS-27	58	114	1250	--
WPS-28	ND	267	470	--
WPS-29	ND	56	253	--
WPS-30	12	14	114	--
WPS-31	378	5130	6540	> 750
WPS-32	108	139	663	--

Notes:
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
ND indicates not detected above laboratory detection limits.
-- = not analyzed
Carbon chain analysis conducted using EPA Method 8015
Fish Bioassay - Adult analysis conducted using Method 600/4-85/013
Sample in the C6 to C10 range that exceeded 1,000 mg/kg were to be analyzed for Fish Bioassay
Samples in the C22 to C36 range that exceeded 3,000 mg/kg were to be analyzed for Fish Bioassay

Table 2-16
Laboratory Analysis For Wood Debris Pile Samples
SVOCs
Former Otay Skeet and Trap Shooting Range

Analyte Concentration (ug/kg)	WPS-1	WPS-2	WPS-3	WPS-4	WPS-5	WPS-6	WPS-7	WPS-8	WPS-9	WPS-10	WPS-11	WPS-12	WPS-13	WPS-14	WPS-15	WPS-16
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	135000	ND
2-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND	ND	ND	ND	1120 J	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	302000	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1750	ND	ND	ND	ND	251000	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1020 J	ND	ND	ND	ND	107000	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19100 J	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31600	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17000 J	ND
Benzoic Acid	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ND	ND	ND	2840	ND	ND	ND	ND	ND	13900	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1030 J	ND	ND	ND	ND	106000	ND

Table 2-16
Laboratory Analysis For Wood Debris Pile Samples
SVOCs
Former Otay Skeet and Trap Shooting Range

Analyte Concentration (ug/kg)	WPS-1	WPS-2	WPS-3	WPS-4	WPS-5	WPS-6	WPS-7	WPS-8	WPS-9	WPS-10	WPS-11	WPS-12	WPS-13	WPS-14	WPS-15	WPS-16
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	327000	ND
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	10500	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	6480	ND	ND	ND	ND	769000	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	458000	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	188000	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	3580 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	8500	ND	ND	ND	ND	1780000	2600
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3620	ND	ND	ND	ND	365000	ND

Table 2-16
Laboratory Analysis For Wood Debris Pile Samples
SVOCs
Former Otay Skeet and Trap Shooting Range

Analyte Concentration (ug/kg)	WPS-17	WPS-18	WPS-19	WPS-20	WPS-21	WPS-22	WPS-23	WPS-24	WPS-25	WPS-26	WPS-27	WPS-28	WPS-29	WPS-30	WPS-31	WPS-32
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	82800	ND
2-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND	ND	ND	4570	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	430000	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1370000	10300
Benzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	394000	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	112000	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	82000	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24000 J	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	123000	ND
Benzoic Acid	ND	8210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	117000	3820	ND	ND	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	456000	ND

Table 2-16
Laboratory Analysis For Wood Debris Pile Samples
SVOCs
Former Otay Skeet and Trap Shooting Range

Analyte Concentration (ug/kg)	WPS-17	WPS-18	WPS-19	WPS-20	WPS-21	WPS-22	WPS-23	WPS-24	WPS-25	WPS-26	WPS-27	WPS-28	WPS-29	WPS-30	WPS-31	WPS-32
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48100	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	276000	ND
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2040000	10100
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	532000	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32000	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	82900	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3090000	19500
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1510000	7460

Notes: ug/kg = micrograms per kilogram
ND = not detected above laboratory detection limit

Table 2-17
Laboratory Analysis For Wood Debris Pile Samples
VOCs
Former Otay Skeet and Trap Shooting Range

Analyte Concentation (ug/kg)	WPS-1	WPS-2	WPS-3	WPS-4	WPS-5	WPS-6	WPS-7	WPS-8	WPS-9	WPS-10	WPS-11	WPS-12	WPS-13	WPS-14	WPS-15	WPS-16
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	255	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	152	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Chlorohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl -2- Pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Allyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2-17
Laboratory Analysis For Wood Debris Pile Samples
VOCs
Former Otay Skeet and Trap Shooting Range

Analyte Concentation (ug/kg)	WPS-1	WPS-2	WPS-3	WPS-4	WPS-5	WPS-6	WPS-7	WPS-8	WPS-9	WPS-10	WPS-11	WPS-12	WPS-13	WPS-14	WPS-15	WPS-16
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12 J	ND
Ethyl methacrylate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16 J	ND
Methacrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butylether (MTBE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	593000	56 J
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	150	ND	ND	ND	247	ND	ND	ND	ND	ND	ND	37 J	ND
Propionitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	21 J	ND	ND	ND	39 J	ND	ND	ND	ND	ND	ND	18 J	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	ND

Table 2-17
Laboratory Analysis For Wood Debris Pile Samples
VOCs
Former Otay Skeet and Trap Shooting Range

Analyte Concentation (ug/kg)	WPS-17	WPS-18	WPS-19	WPS-20	WPS-21	WPS-22	WPS-23	WPS-24	WPS-25	WPS-26	WPS-27	WPS-28	WPS-29	WPS-30	WPS-31	WPS-32
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	93	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Chlorohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl -2- Pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Allyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2-17
Laboratory Analysis For Wood Debris Pile Samples
VOCs
Former Otay Skeet and Trap Shooting Range

Analyte Concentation (ug/kg)	WPS-17	WPS-18	WPS-19	WPS-20	WPS-21	WPS-22	WPS-23	WPS-24	WPS-25	WPS-26	WPS-27	WPS-28	WPS-29	WPS-30	WPS-31	WPS-32
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methacrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butylether (MTBE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	65 J	54 J	52 J	106	84 J	ND	ND	77 J	68 J	352	78 J	58 J	66 J	112000	118
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	14 J	ND	ND	ND	309	260	ND	ND	213	ND	ND	ND	ND	ND
Propionitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	362	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	28 J	ND	ND	ND	ND	ND	ND	ND	ND	10 J
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: ug/kg = micrograms per kilogram
ND = not detected above laboratory detection limit

APPENDIX B

TRC Additional Site Assessment Regarding Title 22 Metals in Soil
and Groundwater Monitoring and Sampling,
Selected Tables and Figures

ADDITIONAL SITE ASSESSMENT REGARDING TITLE 22 METALS IN SOIL AND GROUNDWATER MONITORING AND SAMPLING

February 18, 2008

Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California
Voluntary Assistance Program No. H39635-001

TRC Project No.
126697.0000.0000
(Legacy BST-60058302)

Prepared For:

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Table 2-2

Vicinity Production Wells
Former Otay Skeet and Trap Shooting Range

Well ID	Map ID	Distance from Property Line (ft)	Location Relative to Site	Information Source	Owner	Well Address	Date Installed	Well Depth (ft)	Use	Status	Field Verified	Reference
18S/1W-21N1; "AW-3"	N1, AW-3	0	onsite	DWR; observed in field	Flat Rock; formerly Otay Agricultural Corp.	5350 Heritage Rd.	1/3/1952	570	Irrigation	operating	Yes	1
AW-1	AW-1	0	onsite	Observed in field	Flat Rock	5350 Heritage Rd.	unknown	>200	unknown	inactive	Yes	Observed
AW-2	AW-2	0	onsite	Observed in field	Flat Rock	5350 Heritage Rd.	unknown	75.5	unknown	inactive	Yes	Observed
18S/1W-20J1	J1, RMW-1, 2, 3	0	onsite	Observed in field; DWR, SD County	Flat Rock; formerly United Enterprises	5350 Heritage Rd.	2/26/1987	35, 64, 113	Peizometer	inactive	Yes	1, 4, 5
18S/1W-20Q1	20Q1	0 to 100	Straddles west property line	DWR	unknown	unknown	unknown	unknown	unknown	Likely abandoned	Yes	3
18S/1W-21R1	R1	3,100	East	DWR	Otay Agricultural Corp.	Chula Vista	10/26/1951	110	Not installed	Abandoned: plugged and sealed	No	1
18S/1W-19H1	H1	3,300	West	DWR	unknown	unknown	unknown	unknown	unknown	Likely abandoned	Yes	3
18S/1W-29Q1	29Q1	3,500	South	DWR	Richard Takashima	Otay Mesa	2/10/1953	880	Irrigation	Likely abandoned	Yes	1
645-050-13*	29Q1, Q2	3,500	South	DWR, SD County	Pardee Construction	Otay Mesa Rd. / A Street	11/17/1999	2 wells/ unknown	2 wells Destroyed*	Abandoned with pea gravel and concrete	Yes	1, 4
644-040-39	GC	3,500	West	SD County	Gold Coast Engineering	Nirvana Ave.	1/21/1992	400	Not installed	Abandoned	Yes	5, 6
18S/1W-29Q3	Q3	3,700	South	DWR	Richard Takashima	Otay Mesa	before 1954	unknown	Likely Irrigation	Likely abandoned	Yes	2
18S/1W-29Q2	Q2	4,100	South	DWR	Richard Takashima	Otay Mesa	before 1954	unknown	Likely Irrigation	Likely abandoned	Yes	2
18S/1W-17	--	2,300 to >5,000	North, Northwest	DWR	SD County Transp. Dept.	Otay Landfill, Otay Valley Rd.	various	various; 13 wells	groundwater monitoring	unknown	No	1
644-020-04	--	5,000	Northwest	DWR	County of San Diego; Otay Landfill	1700 Maxwell Road, Chula Vista	6/10/1997	10	groundwater monitoring	Destroyed	No	1
18S/1W-19	--	4,500	West	DWR	Greenwald/ McDonald Gen. Partners	745 Design Court, Chula Vista	various	various; 6 wells	groundwater monitoring	unknown	No	1
18S/1W-19	--	3,500	West	DWR	Brenntag West, Inc.	1888 Nirvana Ave., Chula Vista	various	various; 15 wells	groundwater monitoring	unknown	No	1
644-020-03	--	2,300	Northwest	SD County	SD County Transp. Dept.	Otay Landfill, Otay Valley Rd.	6/12/1979	200	groundwater monitoring	unknown	No	4, 5

Table 2-2

Vicinity Production Wells
Former Otay Skeet and Trap Shooting Range

Notes:

ft = feet
DWR = California Department of Water Resources
SD County = San Diego County Division of Land Use and Water Quality
1 = DWR Water Well Driller's Report with Log
2 = Other data source from DWR
3 = DWR Well Location Map
4 = SD County Well Permit Application with DWR Water Well Driller's Report
5 = SD County Rolodex File Listing
6 = Telephone call, 3/16/05

* = Probably DWR-listed wells 29Q1 and 29Q2
-- = not plotted on production well map figure

Table 4-1

Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Sample Weight (grams)	Pellet Weight (grams)	Pellet Count
Berm	HAB-13T22-0	0	268.8	<0.1	1
Berm	HAB-13T22-0 Dup	0	278.6	0.4	
Berm	HAB-13T22-2	2	260.4	<0.1	1
Berm	HAB-13T22-2 Dup	2	248.6	NP	
Berm	HAB-14T22-0	0	198.7	<0.1	2
Berm	HAB-14T22-2	2	198.6	NP	
Berm	HAB-17T22-0	0	300.7	NP	
Berm	HAB-17T22-2	2	227.4	NP	
Shooting Range Field	HAF-133T22-0	0	232.4	2.5	
Shooting Range Field	HAF-133T22-0 Dup	0	236.4	1.3	
Shooting Range Field	HAF-133T22-2	2	197.0	NP	
Shooting Range Field	HAF-133T22-2 Dup	2	283.7	NP	
Shooting Range Field	HAF-137T22-0	0	268.6	NP	
Shooting Range Field	HAF-137T22-2	2	239.7	1.7	
Shooting Range Field	HAF-172T22-0	0	163.1	0.2	
Shooting Range Field	HAF-172T22-2	2	270.5	0.7	
Shooting Range Field	HAF-174T22-0	0	185.3	0.3	
Shooting Range Field	HAF-174T22-2	2	184.5	NP	
Shooting Range Field	HAF-176T22-0	0	255.3	<0.1	1
Shooting Range Field	HAF-176T22-2	2	196.8	0.8	
Shooting Range Field	HAF-196T22-0	0	214.4	NP	
Shooting Range Field	HAF-196T22-2	2	180.8	<0.1	2
Shooting Range Field	HAF-199T22-0	0	197.7	NP	
Shooting Range Field	HAF-199T22-2	2	254.1	1.0	
Shooting Range Field	HAF-201T22-0	0	223.3	<0.1	2
Shooting Range Field	HAF-201T22-2	2	213.2	1.2	
Shooting Range Field	HAF-206T22-0	0	173.2	0.2	
Shooting Range Field	HAF-206T22-2	2	332.8	NP	
Shooting Range Field	HAF-222T22-0	0	246.6	NP	
Shooting Range Field	HAF-222T22-2	2	222.0	<0.1	1
Shooting Range Field	HAF-227T22-0	0	232.9	0.6	
Shooting Range Field	HAF-227T22-2	2	245.9	NP	
Shooting Range Field	HAF-246T22-0	0	181.5	<0.1	
Shooting Range Field	HAF-246T22-2	2	149.8	0.2	
Shooting Range Field	HAF-248T22-0	0	207.2	0.1	
Shooting Range Field	HAF-248T22-2	2	334.0	<0.1	1
Target Debris Field	HAT-35T22-0	0	540.8	0.1	
Target Debris Field	HAT-39T22-0	0	252.4	NP	
Target Debris Field	HAT-39T22-2	2	209.8	NP	
Target Debris Field	HAT-43T22-0	0	346.4	NP	
Target Debris Field	HAT-49T22-0	0	396.2	NP	

Table 4-2

Title 22 Metals In Soil Results
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Moly-bdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Background	BA-1-0.5	0.5	ND	5.58	173	ND	ND	18.9	6.38	70.9	17.5	ND	ND	9.35	ND	ND	ND	32.4	57.8
Background	BA-2-0.5	0.5	ND	3.6	205	ND	ND	16	6.91	14.7	9.38	ND	ND	9.29	ND	ND	ND	29.8	55.1
Background	BA-2-0.5 DUP	0.5	ND	4.08	158	ND	ND	16.9	5.86	53.6	16.1	ND	ND	8.58	ND	ND	ND	28.7	54.4
Background	BA-3-0.5	0.5	ND	3.28	170	ND	ND	16.5	5.99	25.9	12.2	ND	ND	9.41	ND	ND	ND	28.2	48.7
Background	BA-4-0.5	0.5	ND	ND	138	ND	ND	10	ND	7.81	11	ND	ND	6.32	ND	ND	ND	21.6	34
Background	BA-5-0.5	0.5	ND	ND	132	ND	ND	10	ND	10	18.2	ND	ND	6.09	ND	ND	ND	25.3	39
Background	BA-6-0.5	0.5	ND	ND	129	ND	ND	9.3	ND	9.1	17	ND	ND	6.4	ND	ND	ND	23	60
Background	BA-7-0.5	0.5	ND	3.36	142	ND	ND	13.8	6.32	9.96	10.2	ND	ND	8.51	ND	ND	ND	28.7	45.4
Background	BA-8-0.5	0.5	ND	ND	39.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	22.7
Background	BA-9-0.5	0.5	ND	ND	78.3	ND	ND	10.1	ND	8.43	10.8	ND	ND	5.02	ND	ND	ND	28.2	44.1
Background	BA-10-0.5	0.5	ND	9.83	85.3	ND	ND	10	6.01	11	13.7	ND	ND	7.01	ND	ND	ND	30.1	50.4
Berm	HAB-13T22-0	0	ND	ND	67	ND	ND	6.68	ND	18	28	ND	ND	ND	ND	ND	ND	22.3	24
Berm	HAB-13T22-0 Dup	0	ND	ND	75	ND	ND	7	ND	19	80	ND	ND	ND	ND	ND	ND	22.3	25
Berm	HAB-13T22-2	2	ND	3.97	101	ND	ND	9.6	ND	28	17	ND	ND	5.12	ND	ND	ND	25	31
Berm	HAB-13T22-2 Dup	2	ND	3.8	101	ND	ND	9.4	ND	27	15	ND	ND	5.1	ND	ND	ND	27	31
Berm	HAB-14T22-0	0	ND	ND	59	ND	6.4	ND	8.2	40	ND	ND	ND	ND	ND	ND	ND	25.5	24
Berm	HAB-14T22-2	2	ND	ND	76	ND	ND	7.1	ND	9.5	5.5	ND	ND	ND	ND	ND	ND	26.6	23
Berm	HAB-17T22-0	0	ND	3.03	11.7	ND	ND	11	5.9	10.1	18.4	ND	ND	6.03	ND	ND	ND	36	37
Berm	HAB-17T22-2	2	ND	3.09	116	ND	ND	11	5.7	11	5.79	ND	ND	5.78	ND	ND	ND	36.4	37
Shooting Range Field	HAF-133T22-0	0	ND	3.7	146	ND	ND	11	5.5	12	155	ND	ND	7.2	ND	ND	ND	26	39
Shooting Range Field	HAF-133T22-0 Dup	0	ND	5.07	153	ND	ND	12	6.02	12	251	ND	ND	7.58	ND	ND	ND	26.3	40
Shooting Range Field	HAF-133T22-2	2	ND	ND	168	ND	ND	127	6.2	8.9	9.4	ND	ND	8.2	ND	ND	ND	26	42
Shooting Range Field	HAF-133T22-2 Dup	2	ND	ND	169	ND	ND	130	6.3	9	9.7	ND	ND	8.07	ND	ND	ND	25	41
Shooting Range Field	HAF-137T22-0	0	ND	3.09	181	ND	ND	13	6.12	14	12.3	ND	ND	6.12	ND	ND	ND	35	40
Shooting Range Field	HAF-137T22-2	2	ND	3.62	151	ND	ND	12.1	5.9	9.2	139	ND	ND	7.3	ND	ND	ND	34	39
Shooting Range Field	HAF-172T22-0	0	ND	6.5	154	ND	ND	15	5.5	49	484	ND	ND	7.68	ND	ND	ND	30	53
Shooting Range Field	HAF-172T22-2	2	ND	5	153	ND	ND	13	5.7	48	234	ND	ND	7.76	ND	ND	ND	31	51
Shooting Range Field	HAF-174T22-0	0	ND	5.74	177	ND	ND	17	6.1	50	161	ND	ND	8.75	ND	ND	ND	32	56
Shooting Range Field	HAF-174T22-2	2	ND	4.87	164	ND	ND	13	6.02	10.2	11.2	ND	ND	7.96	ND	ND	ND	30.3	42
Shooting Range Field	HAF-176T22-0	0	ND	3.83	169	ND	ND	14	6.3	13	65	ND	ND	8.38	ND	ND	ND	33	47
Shooting Range Field	HAF-176T22-2	2	ND	5.5	162	ND	ND	15	6.03	35	236	ND	ND	35	ND	ND	ND	31	55
Shooting Range Field	HAF-196T22-0	0	ND	4.9	183	ND	ND	14	6.23	11	9.53	ND	ND	8.51	ND	ND	ND	33.9	47
Shooting Range Field	HAF-196T22-2	2	ND	5.04	166	ND	ND	16	5.9	52	39	ND	ND	8.61	ND	ND	ND	31	57
Shooting Range Field	HAF-199T22-0	0	ND	6.23	214	ND	ND	17	7.4	24	127	ND	ND	10	ND	ND	ND	40	51
Shooting Range Field	HAF-199T22-2	2	ND	6.4	159	ND	ND	15	6	37	579	ND	ND	7.95	ND	ND	ND	32	53
Shooting Range Field	HAF-201T22-0	0	ND	5	187	ND	ND	16	6.9	16	33	ND	ND	9.4	ND	ND	ND	40	47
Shooting Range Field	HAF-201T22-2	2	ND	6.7	147	ND	ND	14	5.6	64	547	ND	ND	7.62	ND	ND	ND	27	47
Shooting Range Field	HAF-206T22-0	0	ND	5.67	154	ND	ND	16	6.8	69	192	ND	ND	8.72	ND	ND	ND	29	46
Shooting Range Field	HAF-206T22-2	2	ND	3.65	167	ND	ND	13	6.41	15	13	ND	ND	8.02	ND	ND	ND	27	36
Shooting Range Field	HAF-222T22-0	0	ND	4.77	196	ND	ND	16	6.9	15	12	ND	ND	9.4	ND	ND	ND	45	51
Shooting Range Field	HAF-222T22-2	2	ND	ND	190	ND	ND	18	6.63	58	132	ND	ND	9.09	ND	ND	ND	36	56
Shooting Range Field	HAF-227T22-0	0	ND	4.94	137	ND	ND	13	6.1	56	191	ND	ND	7.7	ND	ND	ND	25	38
Shooting Range Field	HAF-227T22-2	2	ND	ND	116	ND	ND	13	6.14	11	13	ND	ND	8.56	ND	ND	ND	26	35
Shooting Range Field	HAF-246T22-0	0	ND	3.5	181	ND	ND	14	6.4	12	40.1	ND	ND	8.4	ND	ND	ND	33	46
Shooting Range Field	HAF-246T22-2	2	ND	6.09	186	ND	ND	16	7.21	112	194	ND	ND	8.73	ND	ND	ND	35	49

Table 4-2

Title 22 Metals In Soil Results
Former Otay Skeet and Trap Shooting Range

Area	Sample ID	Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Moly-bdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Shooting Range Field	HAF-248T22-0	0	ND	4.26	131	ND	ND	14	6.54	38	109	ND	ND	8.64	ND	ND	ND	30	40
Shooting Range Field	HAF-248T22-2	2	ND	3.1	245	ND	ND	14	6.62	10.5	18	ND	ND	8.73	ND	ND	ND	35	40
Target Debris Field	HAT-35T22-0	0	ND	6.93	134	ND	ND	11.6	7	13	21	ND	ND	6.9	ND	ND	ND	35	46
Target Debris Field	HAT-39T22-0	0	ND	ND	58	ND	ND	ND	ND	6.1	10.2	ND	ND	ND	ND	ND	ND	21	27
Target Debris Field	HAT-39T22-2	2	ND	11.9	73	ND	ND	8.5	8	14.3	20.5	ND	ND	8.3	ND	ND	ND	40	59
Target Debris Field	HAT-43T22-0	0	ND	16	78	ND	ND	12	8.07	11	6.42	ND	ND	8.1	ND	ND	ND	36.8	47
Target Debris Field	HAT-49T22-0	0	ND	ND	46	ND	ND	ND	ND	6.43	16	ND	ND	ND	ND	ND	ND	19	19

Summary Statistics

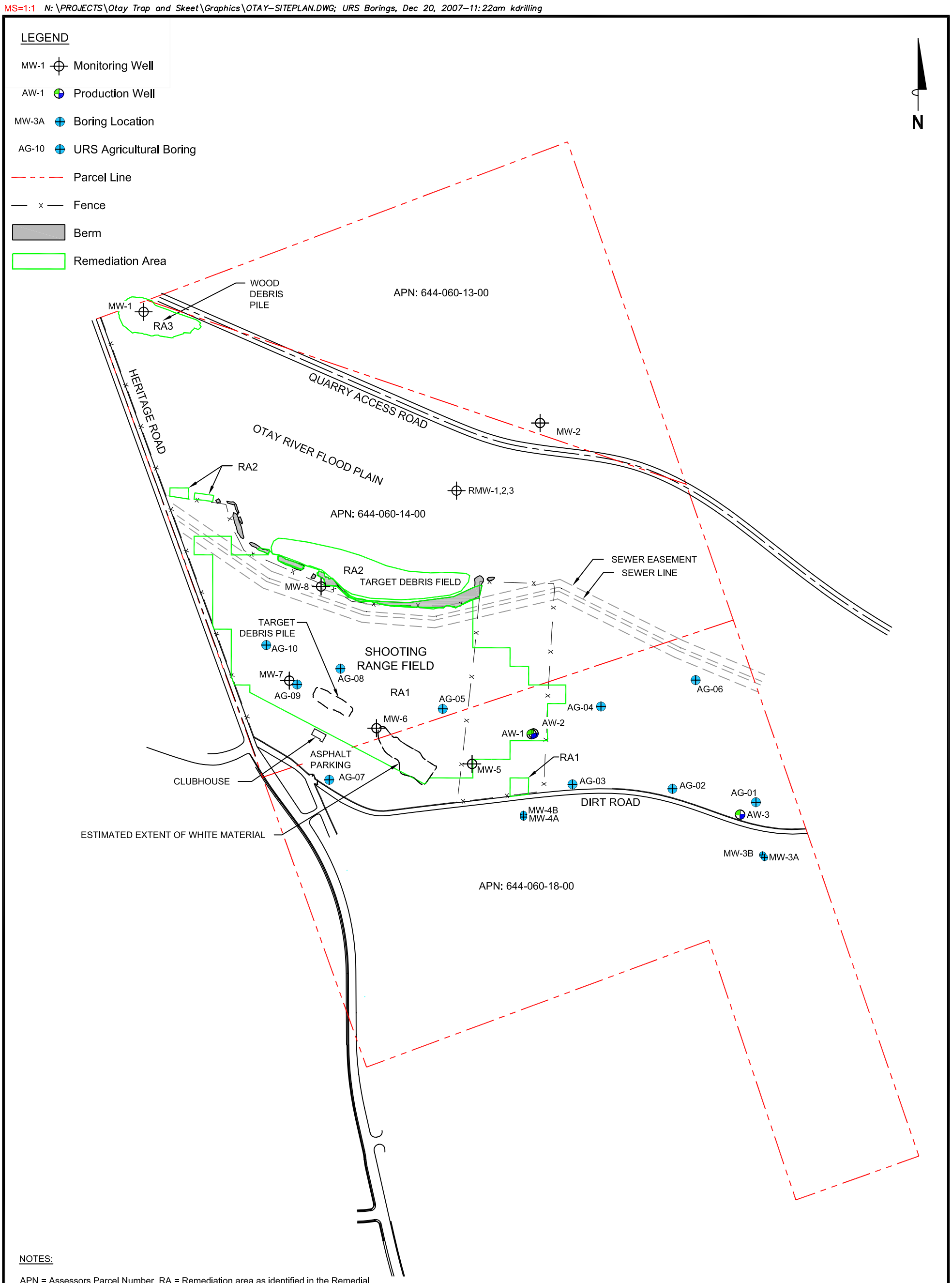
Location	Statistics		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Moly-bdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Background	Minimum		0	0	39.8	0	0	0	0	0	0	0	0	0	0	0	0	21.6	22.7
Background	Median		0	3.28	138	0	0	10.1	5.86	10	12.2	0	0	7.01	0	0	0	28.2	48.7
Background	Maximum		0	9.83	205	0	0	18.9	6.91	70.9	18.2	0	0	9.41	0	0	0	32.4	60
Shooting Range	Minimum		0	0	11.7	0	0	0	0	6.1	0	0	0	0	0	0	0	19	19
Shooting Range	Median		0	3.97	153	0	0	13	6.1	15	28	0	0	7.96	0	0	0	31	42
Shooting Range	Maximum		0	16	245	0	6.4	130	8.2	112	579	0	0	35	0	0	0	45	59

Risk-Based Screening Values

Screening Source		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Moly-bdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
California CHHSL Residential		30	0.07	5,200	150	1.7	NA	660	3,000	150	18	380	1,600	380	380	5	530	23,000
Federal PRG Residential[1]		31	0.39	5,400	150	37	210	900	3,100	400	23	390	1,600	390	5,100	5.2	78	23,000

Notes:
All concentrations in milligrams per kilogram
ND = not detected above laboratory detection limits
CHHSL = California Human Health Screening Levels
PRG = Preliminary Remediation Goals
All ND values set to 0 for summary statistics
[1] California modified values are not shown.

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\OTAY-SITEPLAN.DWG; URS Borings, Dec 20, 2007-11:22am kdrilling



NOTES:

APN = Assessors Parcel Number. RA = Remediation area as identified in the Remedial Investigation/Feasibility Study (RI/FS) (TRC, 2005). RA1 = Shooting Range Field, Sewer backfill, Target Debris Field and Berm. RA2 = Otay River Flood Plain and Target Debris Field. RA3 = Wood Debris Pile. All dimensions and locations are approximate.

SOURCE:

URS agricultural borings from URS figure titled "SITE PLAN WITH SAMPLE LOCATIONS PHASE II, PARCEL A OTAY VALLEY RANCH," dated 8-20-01.

SCALE (FEET)
0 500

TRC

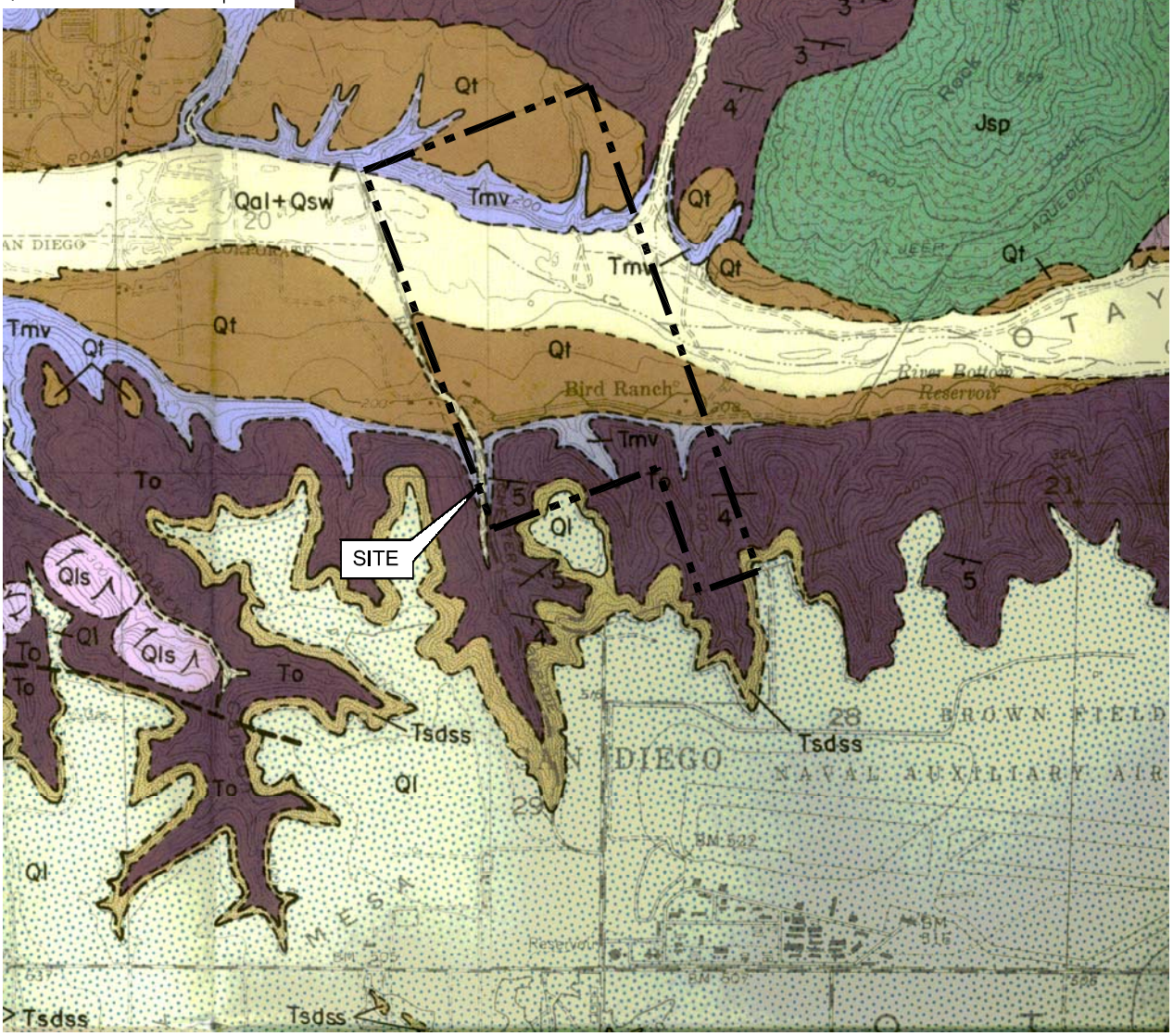
FACILITY:
Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

URS BORINGS SAMPLED FOR HERBICIDES AND PESTICIDES

FIGURE 2-3

LEGEND

Jsp	-	Santiago Peak Volcanics
Tmv	-	Mission Valley Formation
Tfg	-	Unnamed Fanglomerate
To	-	Otay Formation
Tsdss	-	San Diego Formation, Sandstone Part
Ql	-	Lindavista Formation
Qt	-	Stream-terrace Deposits
Qls	-	Landslide Deposits
Qal+Qsr	-	Alluvium and Slope Wash

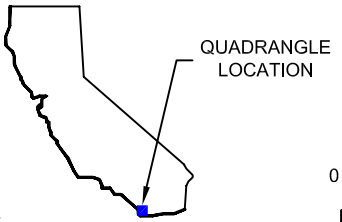


NOTE:

All dimensions and locations are approximate.

SOURCE:

Geology of National City, Imperial Beach and Otay Mesa Quadrangles, Southern San Diego Metropolitan Area, California. By Michael P. Kennedy and Siang S. Tan, 1977 California Division of Mines and Geology, Map Sheet 29.



0 1/4 1/2 3/4 1 MILE

SCALE 1" = 2,000'

TRC

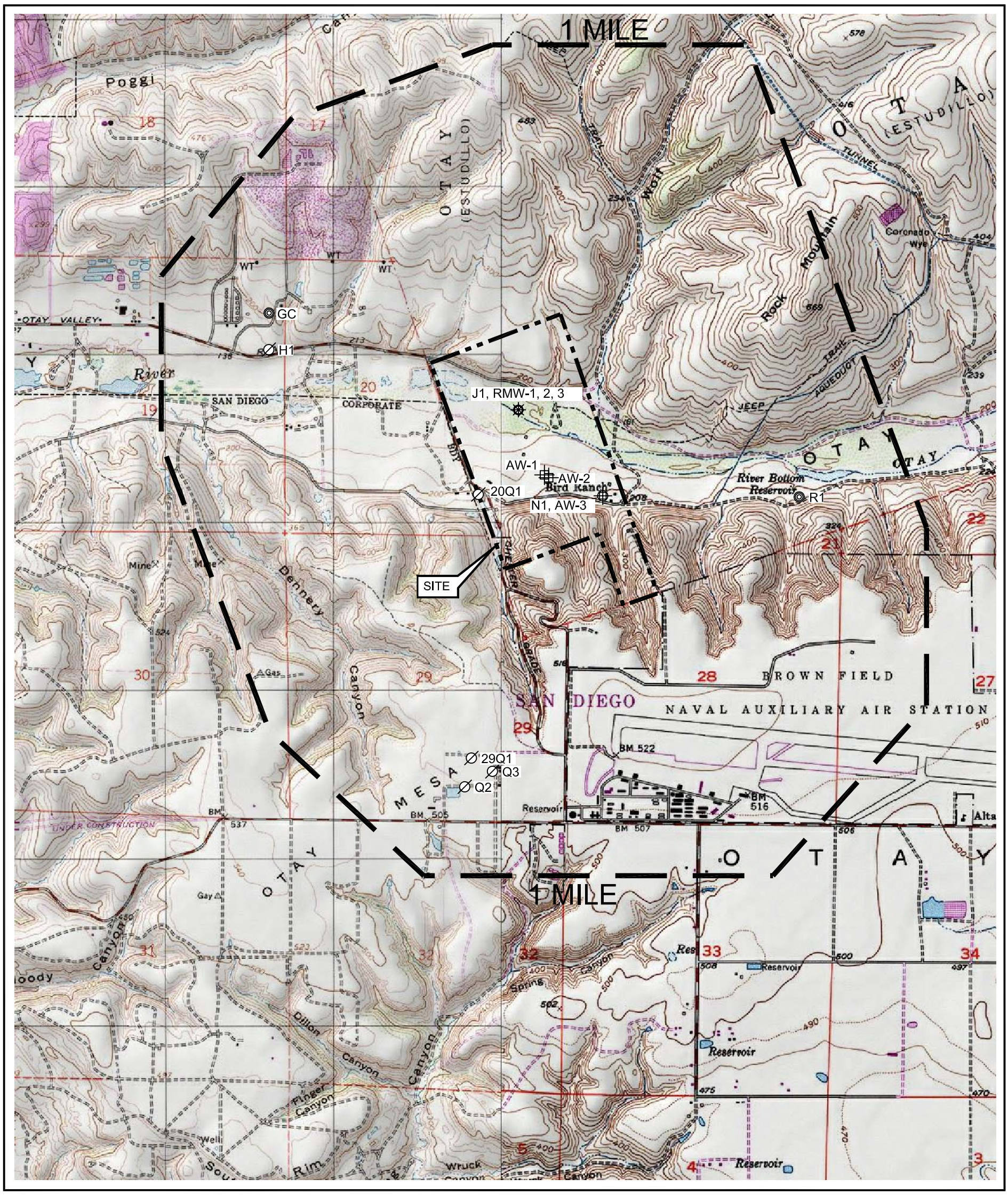
FACILITY:

Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

GEOLOGIC MAP

FIGURE 2-4

MS=1:1 N:□PROJECTS□Otay Trap and Skeet□Graphics□OTMSR-GM.dwg; Geologic Map, Dec 20, 2007-11:24am kdrilling



0 1/4 1/2 3/4 1 MILE

SCALE 1" = 2,000'

N

LEGEND

	1 Mile Marker from Property Boundary
AW-1	Observed Inactive Well
N1, AW-3	Active DWR-Listed Production Well
Q2	Likely Destroyed DWR-Listed Production Well
R1	Attempted and Abandoned Well
J1, RMW-1, 2, 3	Triple-Nested Peizometer

NOTE:

DWR: California Department of Water Resouces. All dimensions and locations are estimated.

MAP OF VICINITY
PRODUCTION WELLS

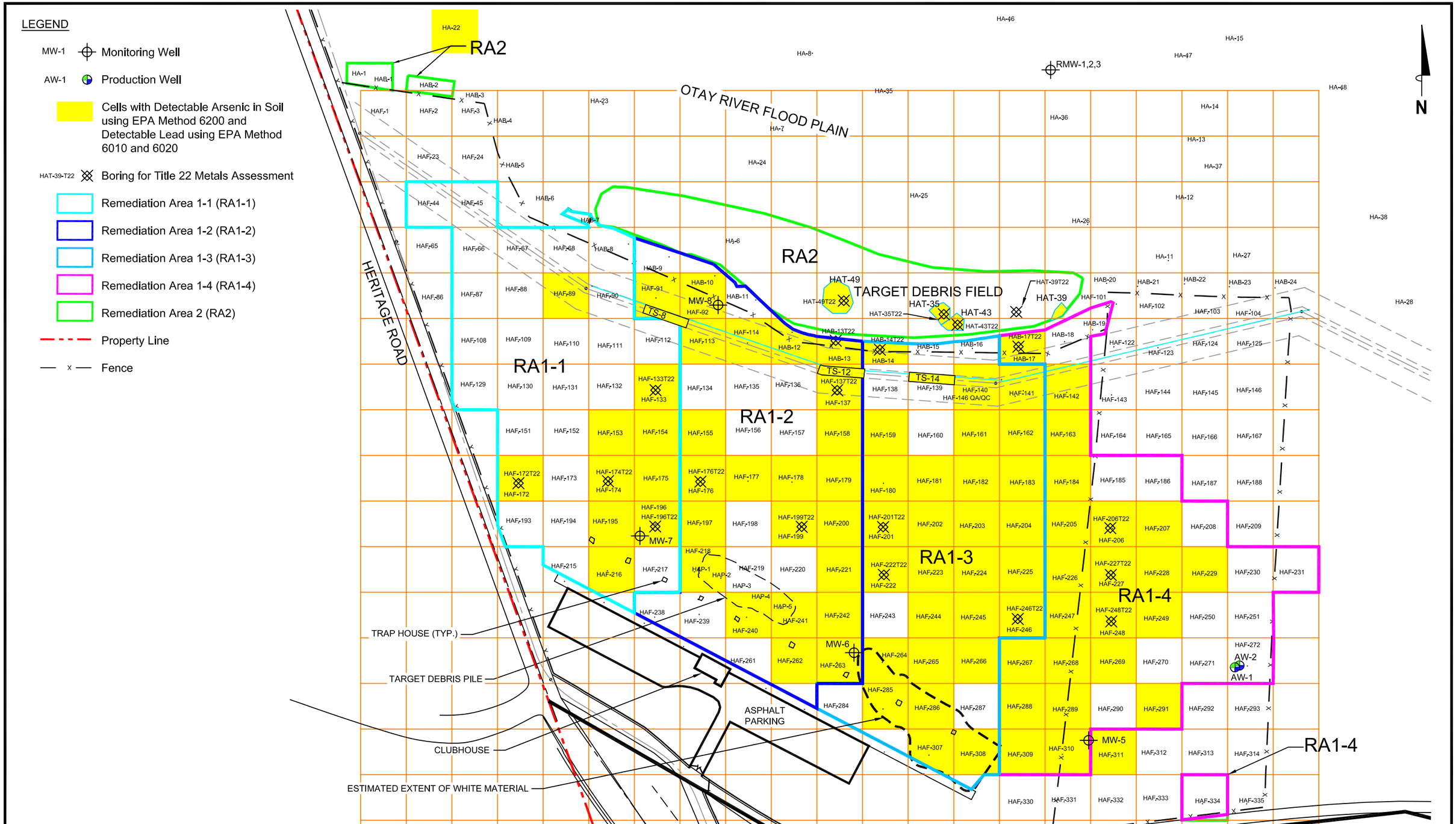
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 2-9

TRC

SOURCE:
United States Geological Survey
7.5 Minute Topographic Map:
Imperial Beach and Otay Mesa Quadrangles
Photorevised 1975

N:\PROJECTS\Otay Trap and Skeet\Graphics\VICINITY PROD-WELLS.dwg Dec 20, 2007 - 4:06pm LRE



NOTE:

RA = Remediation Area. All locations and dimensions are approximate.

SCALE (FEET)

0 200

TRC

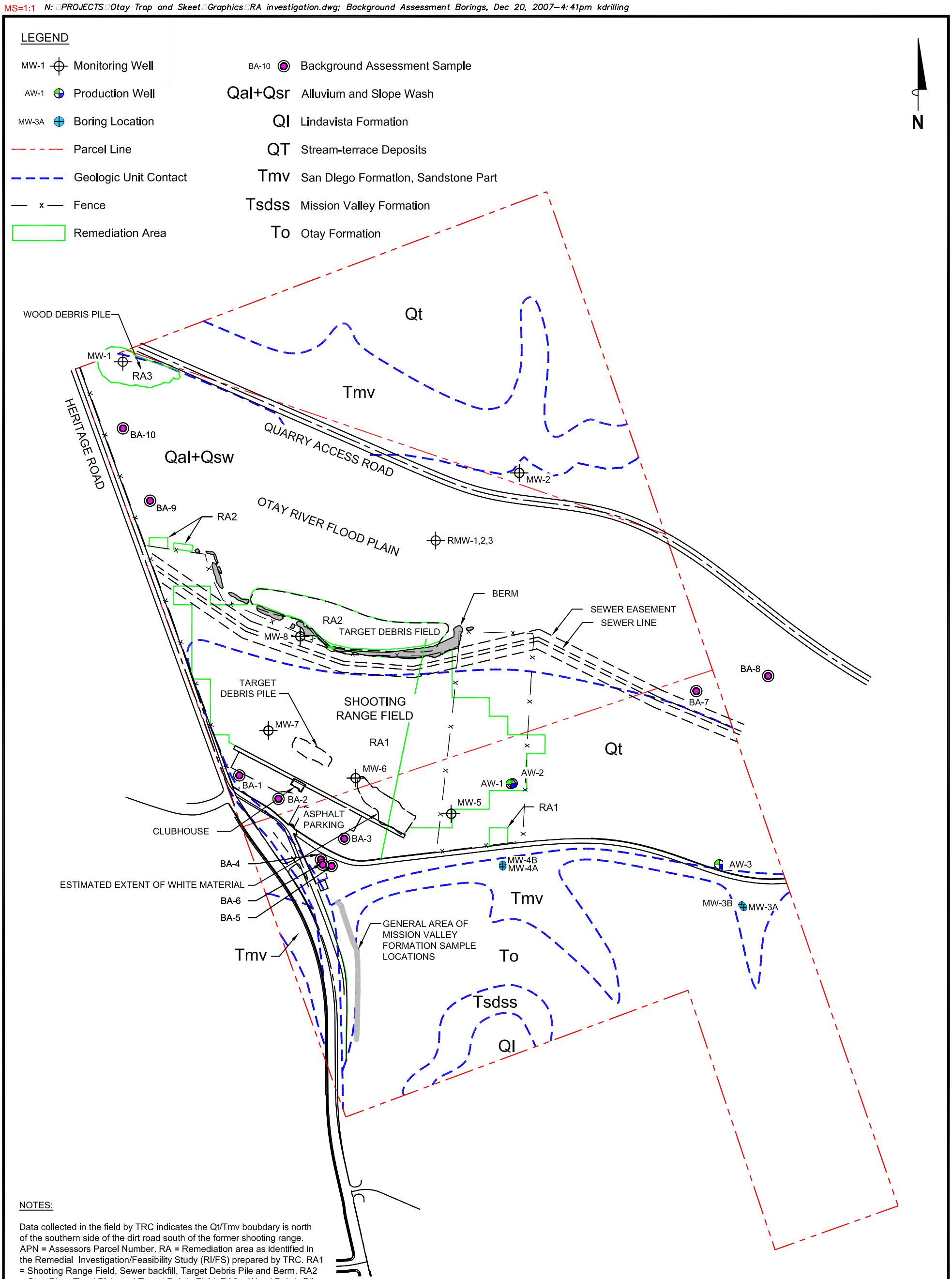
FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

BORINGS FOR TITLE 22 METALS ASSESSMENT

FIGURE 3-1

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-SITEPLAN_RA-1_RA-4.dwg; RA Area, Dec 20, 2007-4:46pm kdrilling

MS=1:1 N: PROJECTS Otay Trap and Skeet Graphics RA investigation.dwg; Background Assessment Borings, Dec 20, 2007-4:41pm kdrilling



NOTES:

Data collected in the field by TRC indicates the Qt/Tmv boubdary is north of the southern side of the dirt road south of the former shooting range. APN = Assessors Parcel Number. RA = Remediation area as identified in the Remedial Investigation/Feasibility Study (RI/FS) prepared by TRC. RA1 = Shooting Range Field, Sewer backfill, Target Debris Pile and Berm. RA2 = Otay River Flood Plain and Target Debris Field. RA3 = Wood Debris Pile. All dimensions and locations are approximate.

SOURCE:

Geology of National City, Imperial Beach and Otay Mesa Quadrangles, Southern San Diego Metropolitan Area, California by Michael P. Kennedy and Siang S. Tan1977 California Division of Mines and Geology, Map Sheet 29

SCALE (FEET)
0 500

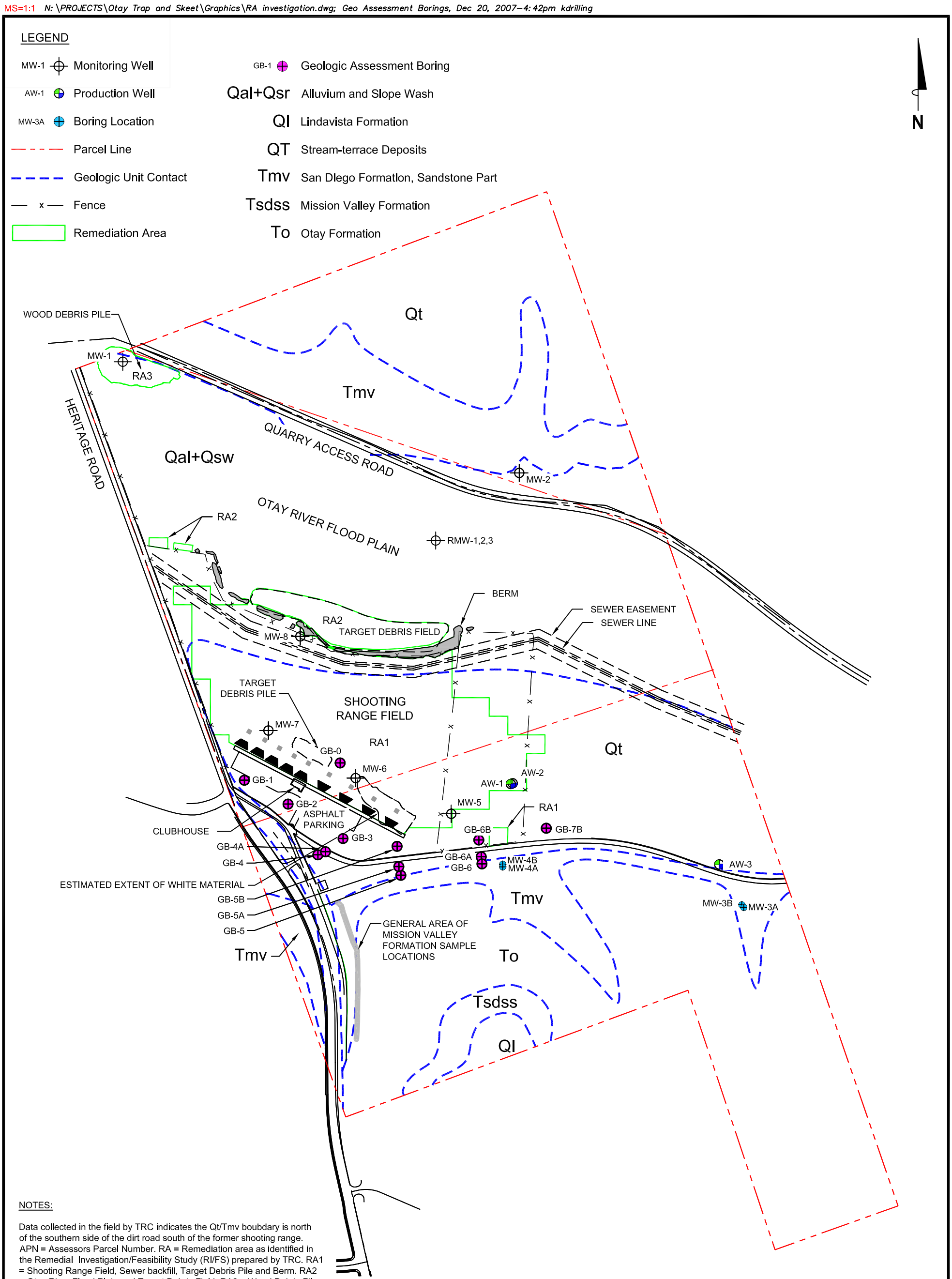
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

BACKGROUND SAMPLE LOCATIONS

FIGURE 3-2

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\RA investigation.dwg; Geo Assessment Borings, Dec 20, 2007-4:42pm kdrilling



NOTES:

Data collected in the field by TRC indicates the Qt/Tmv boubdary is north of the southern side of the dirt road south of the former shooting range. APN = Assessors Parcel Number. RA = Remediation area as identified in the Remedial Investigation/Feasibility Study (RI/FS) prepared by TRC. RA1 = Shooting Range Field, Sewer backfill, Target Debris Pile and Berm. RA2 = Otay River Flood Plain and Target Debris Field. RA3 = Wood Debris Pile. All dimensions and locations are approximate.

SOURCE:

Geology of National City, Imperial Beach and Otay Mesa Quadrangles, Southern San Diego Metropolitan Area, California by Michael P. Kennedy and Siang S. Tan1977 California Division of Mines and Geology, Map Sheet 29

SCALE (FEET)
0 500

TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

GEOLOGIC ASSESSMENT BORINGS

FIGURE 3-3

APPENDIX C

Foster Wheeler Corporation Revised Draft,
Focused Remedial Investigation/Feasibility Study Report,
Figure 5

REVISED DRAFT

FOCUSED REMEDIAL INVESTIGATION/ FEASIBILITY STUDY REPORT FOR A SKEET AND TRAP SHOOTING RANGE, 5350 HERITAGE ROAD, OTAY VALLEY, COUNTY OF SAN DIEGO, CALIFORNIA

November 2002

Prepared for:

Luce, Forward, Hamilton and Scripps LLP
600 West Broadway, Suite 2600
San Diego, California 92101

Prepared by:

FOSTER WHEELER ENVIRONMENTAL CORPORATION
1940 East Deere Avenue, Suite 200
Santa Ana, California 92705

Jeff Oslick, Ph.D.
Scientist

Mark Cutler, R.G., C.HG.
Project Manager

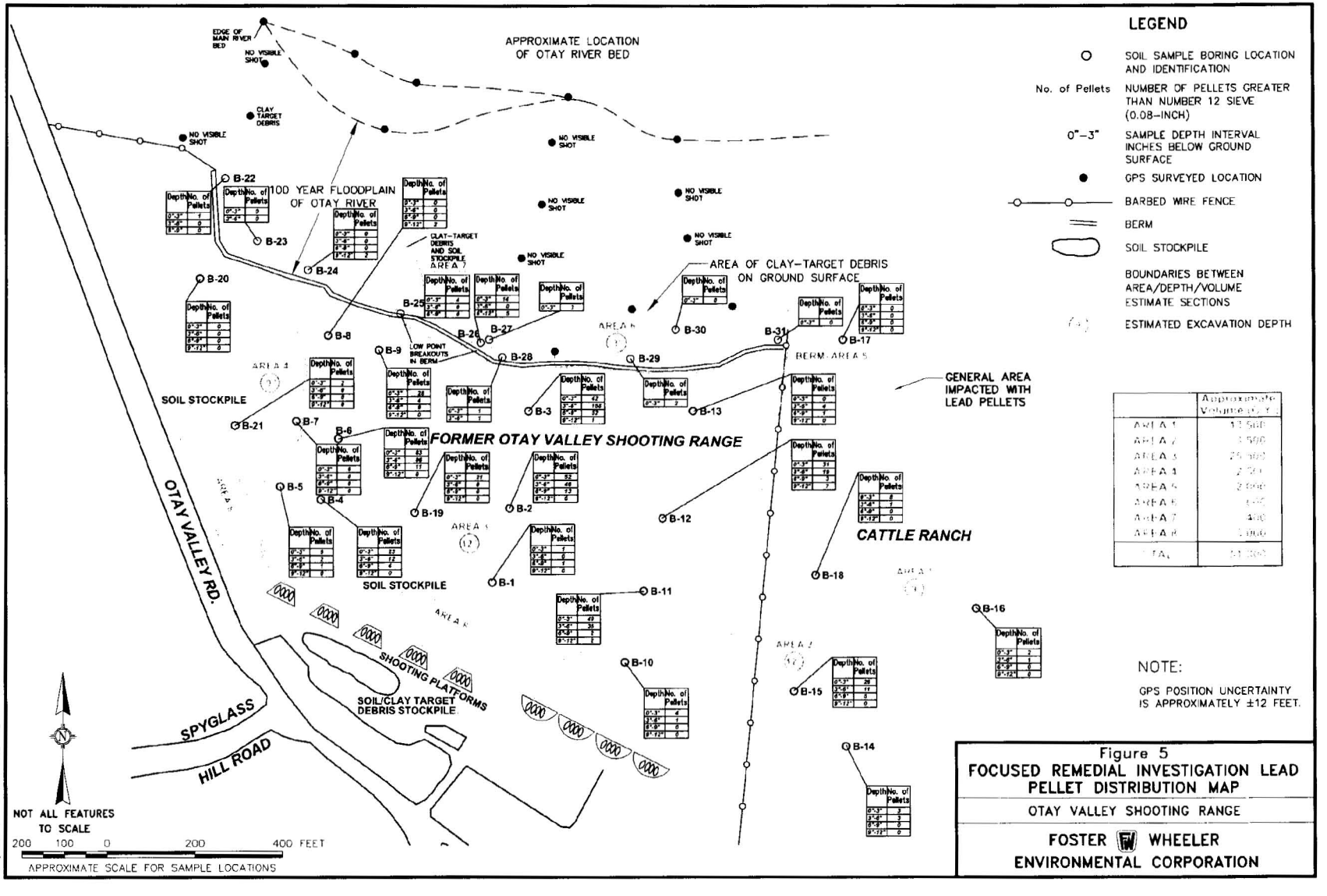


Figure 5
FOCUSED REMEDIAL INVESTIGATION LEAD PELLET DISTRIBUTION MAP
OTAY VALLEY SHOOTING RANGE
FOSTER WHEELER ENVIRONMENTAL CORPORATION

I:\2598-LUCE FORWARD\2598-0002 OTAY VALLEY RI-FS\DWG\FIG 5.DWG
PLOT/UPDATE: NOV 05 2002 16:25:06

PLF 022379

APPENDIX D

TRC Ecological Phase I Predictive Assessment,
Selected Tables and Figures

TRC
4393 Viewridge Avenue
Suite A
San Diego, CA 92123

858.505.8881 PHONE
858.505.9515 FAX

www.TRCsolutions.com

April 8, 2011

County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Program
P.O. Box 129261
San Diego, California 92112-9261

ATTN: MR. JAMES CLAY

SITE: FORMER OTAY SKEET AND TRAP SHOOTING RANGE
5350 HERITAGE ROAD, CHULA VISTA, CALIFORNIA 91913
VOLUNTARY ASSISTANCE PROGRAM NO. H39635-001

RE: FINAL ECOLOGICAL PHASE I PREDICTIVE ASSESSMENT

Dear Mr. Clay:

On behalf of Flat Rock Land Company, LLC (Flat Rock), please find enclosed the updated Final Phase I Predictive Assessment the former Otay Skeet and Trap Shooting Range, located at 5350 Heritage Road in Chula Vista, California. The Final Phase I Predictive Assessment is submitted in accordance and consistent with October 26, 2010 correspondence and the accompanying memorandum from the California Department of Toxic Substances Control (DTSC), the December 17, 2010 memorandum from DTSC, the December 7, 2010 letter from the San Diego County Department of Environmental Health (DEH) where DEH provided conditional approval of TRC's Supplemental Feasibility Study (FS), and April 5, 2011 correspondence and the accompanying memorandum from the DTSC.

Specifically, this updated Final document includes two new figures, Figures 2 and 4, to address DTSC General Comments 1 and 2 ("color aerial photograph of the site . . . for orientation and exposition of the potential wildlife habitats", and "2010 lead concentration data should be presented on either a separate map or combined with all the lead data"), additional text in Section 1.3 Soil Sampling Data at the end of the first paragraph and the middle of the third paragraph to address DTSC General Comment 3, a new final paragraph in Section 4.4.2 Toxicological Data (within Section 4.4 Uncertainty Assessment) to address DTSC General Comment 4, and finally, presentation of the 95% UCL calculations for the biased samples in Appendix B to address DTSC General Comment 5.

We look forward to continuing to work with DEH and other consultative agencies. Once a final concurrence letter regarding the Supplemental FS is issued by DEH, Flat Rock will formally submit the Draft Remedial Action Plan (Draft RAP).[1]

If you have any questions regarding this report, please contact me at (858) 505-8881 x 4904 or at gmccue@trcsolutions.com.

Sincerely,
TRC

Gary J. McCue, PG 5886, CHG 434
Principal Hydrogeologist

cc: Mr. Bob Penner, Flat Rock Land Company, LLC
Mr. Robert L. Hines, Esq., Farella Braun + Martel LLP
Mr. Kevin Heaton, PG, DEH
Mr. Steve Friet, PG, DTSC (2 copies plus CD)
Mr. Scott Heim, TRC

126697.0000.0000

[1] On April 1, 2011, Flat Rock provided a tabular comparative analysis along with a letter responsive to DTSC's November 17, 2010 letter which provided DTSC's review of Flat Rock's Supplemental FS. Based on that letter and accompanying documents, Flat Rock seeks DTSC's acknowledgment that DTSC's comments and recommendations have been adequately addressed. Following such acknowledgment, we expect that DEH will issue a final concurrence letter providing final, unconditional approval of Flat Rock's Supplemental FS.

PHASE I PREDICTIVE ASSESSMENT
For
MULTIPLE SPECIES CONSERVATION PLAN (MSCP) PRESERVE AREA

FORMER OTAY SKEET AND TRAP SHOOTING RANGE
5350 HERITAGE ROAD, CHULA VISTA, CALIFORNIA

Prepared For:

Flat Rock Land Company, LLC
1903 Wright Place, Suite 220
Carlsbad, CA 92008

Prepared By:

TRC
4393 Viewridge Avenue, Suite A
San Diego, California 92123

April 8, 2011

Table A-1
Lead Pellet Sieving Results
Former Otay Skeet and Trap Shooting Range

Remediation Area	Sample ID	Sample Depth (feet)	Sample Weight (grams)	Pellet Weight (grams)	Pellet Count	Target Debris Present (Y/N)
RA2	RA2-01-01D and RA2-50-01	0	442.8	NP	0	N
RA2	RA2-02-01	0	183.4	NP	0	N
RA2	RA2-03-01	0	144.3	NP	0	Y
RA2	RA2-04-01	0	268.5	NP	0	N
RA2	RA2-05-01	0	297.5	NP	0	N
RA2	RA2-06-01D and RA2-50-02	0	185.6	<0.1	3	Y
RA2	RA2-07-01	0	288.1	NP	0	Y
RA2	RA2-08-01	0	142.8	NP	0	N
RA2	RA2-09-01	0	213.3	NP	0	Y
RA2	RA2-10-01	0	257.2	NP	0	N
RA2	RA2-11-01	0	203.1	NP	0	N
RA2	RA2-12-01	0	155.5	NP	0	Y

Notes:
NP = not present
Y = yes
N = no

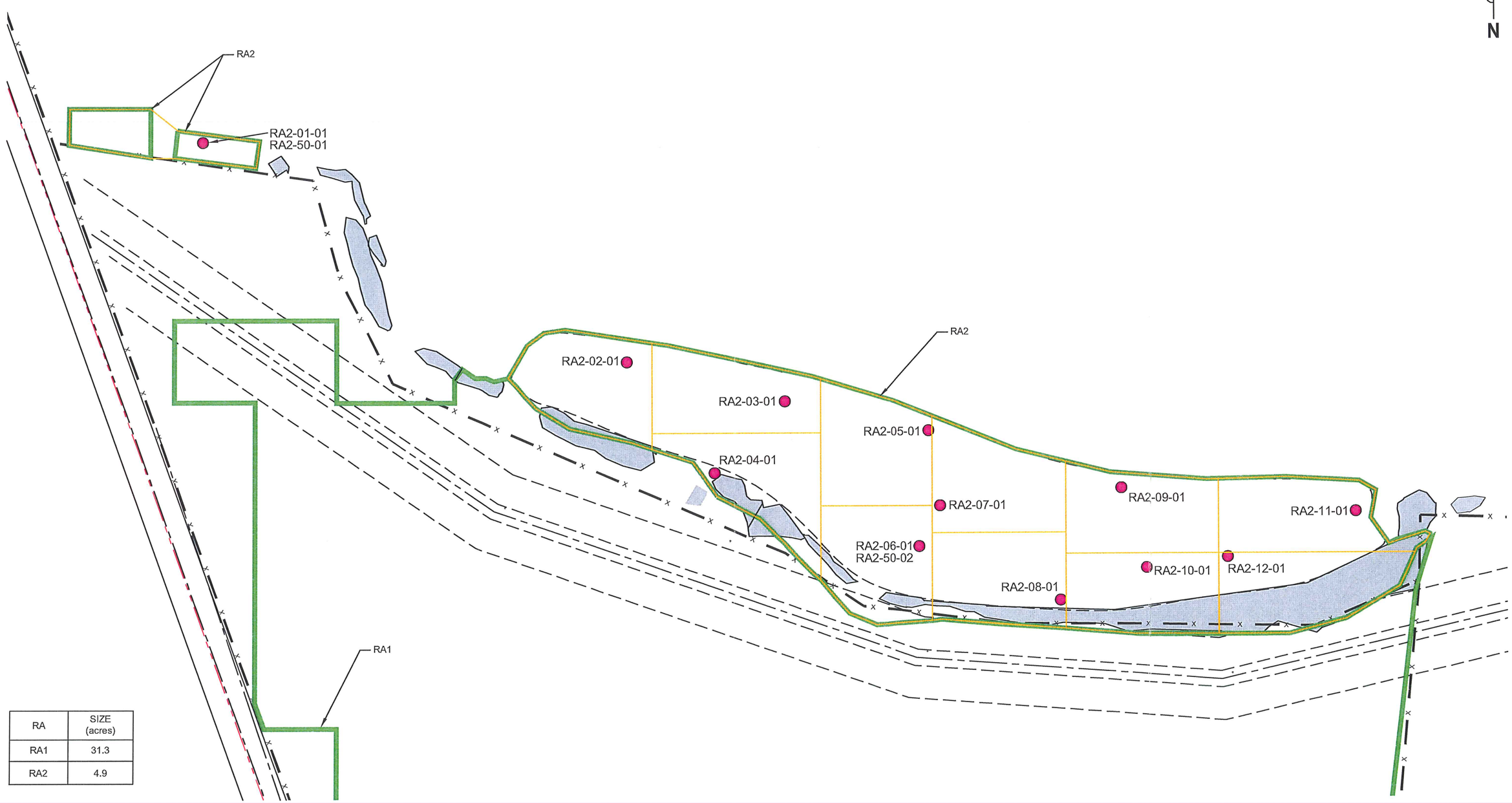
Table A-2
Lead Laboratory Analytical Results
Former Otay Skeet and Trap Shooting Range

Remediation Area	Sample ID	Sample Matrix	Sample Date	Lead by EPA 6010B (mg/kg)	Lead by EPA 6010B (mg/L)
RA2	RA2-01-01	Soil	01/06/2011	57.0	--
RA2	RA2-01-01D/RA2-50-01	Soil	01/06/2011	59.8	--
RA2	RA2-02-01	Soil	01/06/2011	6.16	--
RA2	RA2-03-01	Soil	01/06/2011	10.6	--
RA2	RA2-04-01	Soil	01/06/2011	7.09	--
RA2	RA2-05-01	Soil	01/06/2011	9.11	--
RA2	RA2-06-01	Soil	01/06/2011	30.9	--
RA2	RA2-06-01D/RA2-50-02	Soil	01/06/2011	45.1	--
RA2	RA2-07-01	Soil	01/06/2011	6.01	--
RA2	RA2-08-01	Soil	01/06/2011	22.0	--
RA2	RA2-09-01	Soil	01/06/2011	10.4	--
RA2	RA2-10-01	Soil	01/06/2011	13.4	--
RA2	RA2-11-01	Soil	01/06/2011	4.23	--
RA2	RA2-12-01	Soil	01/06/2011	16.2	--
RA2	Water-2011-01-06	Water	01/06/2011	--	ND<0.005
RA2	Water-2011-01-07	Water	01/07/2011	--	ND<0.005

mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
ND = Not detected at laboratory detection limit

LEGEND

RA2-12-01 Sample Location



RA	SIZE (acres)
RA1	31.3
RA2	4.9

NOTE:

RA = Remediation area. RA1 = Shooting Range Field, Sewer backfill, Target Debris Pile and portions of the Berm. RA2 = Otay River Flood Plain, Target Debris Field and portions of the Berm. All dimensions and locations are approximate.

SCALE (FEET)

0 120

TRC

FACILITY:

Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

SITE PLAN SHOWING REMEDIATION AREA 2 PROPOSED SOIL SAMPLE LOCATIONS COLLECTED JANUARY 6, 2011

FIGURE A-2

DWG: L:\Graphics\ProjectsByName\Otay\RA investigation.dwg
DATE: Apr 07, 2011 11:28am XREFS: OTAY_SR-GPS
USER: Rcollins OTAY_SR-BASE
MS=1:1 OTAY_2007-10 Additional Assessment ECOPOINTS revised_aoc_boundary CELL-NUMBERS

APPENDIX E

Groundwater and Surface Water Monitoring Data Table,
and Historical Figures Illustrating Groundwater Elevation and Concentrations,
from Various TRC Reports

Table 3-1

Ground and Surface Water Monitoring Data and Selected Laboratory Analytical Results
Former Otay Skeet and Trap Shooting Range

Sample ID	Date Sampled	Laboratory	Depth to Water (fbtc)	Well Elevation (feet)	Ground-water Elevation (feet)	Perchlorate (µg/L)	Lead (unfiltered) (mg/L)	Lead (mg/L)	PAHs (µg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)
MW-1	3/1/04	--	12.72	143.32	130.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	3/12/04	Associated	12.98	143.32	130.34	ND	0.018	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	5/12/04	Associated	13.53	143.32	129.79	--	0.174	0.026	ND	ND	0.022	0.095	0.015	ND	0.040	ND	0.040	ND	0.016	0.030
MW-1	6/30/04	--	16.64	143.32	126.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	1/21/05	--	12.23	143.32	131.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/2/05	--	13.22	143.32	130.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/14/05	--	13.09	143.32	130.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/18/07	Associated	13.13	143.32	130.19	9.0	--	ND	--	ND	ND	0.174	0.005	0.007	ND	0.020	0.029	ND	ND	0.019
MW-1	3/12/08	Associated	13.03	143.32	130.29	ND	--	ND	--	ND	0.009	0.240	0.003	0.013	ND	0.028	0.036	ND	ND	0.083
MW-1	6/25/09	Associated	15.23	143.32	128.09	25.9	--	ND	--	ND	0.007	0.122	ND	ND	ND	ND	ND	ND	ND	ND
MW-1	9/21/09	Associated	17.99	143.32	125.33	10.7	--	ND	--	ND	ND	0.104	ND	ND	ND	ND	ND	ND	ND	ND
MW-1	12/15/09	Associated	13.21	143.32	130.11	17.0	--	ND	--	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND
MW-1	3/8/10	Associated	12.78	143.32	130.54	6.03	--	ND	--	ND	ND	0.186	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	3/1/04	--	23.34	159.66	136.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	3/12/04	Associated	23.22	159.66	136.44	4.6	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	5/12/04	Associated	22.51	159.66	137.15	ND	0.011	ND	ND	ND	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	5/12/04	Calscience	22.51	159.66	137.15	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	6/30/04	--	22.70	159.66	136.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/21/05	Associated	16.15	159.66	143.51	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/2/05	--	--	159.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/14/05	--	21.04	159.66	138.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/18/07	Associated	21.50	159.66	138.16	5.0	--	ND	--	ND	0.007	0.227	0.010	0.006	ND	0.013	0.030	ND	0.013	ND
MW-2	3/12/08	Associated	20.44	159.66	139.22	8.45	--	ND	--	ND	0.006	0.227	0.004	0.012	0.005	0.056	0.031	ND	0.021	0.041
MW-2	6/25/09	--	NA	159.66	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	9/21/09	--	NA	159.66	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/15/09	Associated	23.04	159.66	136.62	22.0	--	ND	--	ND	0.01	0.190	ND	ND	ND	ND	0.037	ND	ND	0.074
MW-2	3/8/10	Associated	20.46	159.66	139.20	23.3	--	ND	--	ND	ND	0.318	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	3/1/04	--	60.98	187.83	126.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	3/12/04	Associated	60.73	187.83	127.10	59	0.291	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/12/04	Associated	60.50	187.83	127.33	24.2	0.059	0.035	ND	ND	0.016	0.044	0.015	ND	0.041	ND	0.052	0.005	0.017	0.060
MW-5	5/12/04	Calscience	60.50	187.83	127.33	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5 DUP	5/12/04	Associated	60.50	187.83	127.33	23.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5 DUP	5/12/04	Calscience	60.50	187.83	127.33	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6/30/04	--	60.65	187.83	127.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/21/05	Associated	59.60	187.83	128.23	11.4	--	0.005	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/2/05	Associated	59.22	187.83	128.61	12	--	0.012	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/14/05	Associated	59.08	187.83	128.75	19	--	0.015	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/18/07	Associated	58.54	187.83	129.29	23	--	ND	--	ND	0.003	0.058	0.005	0.006	ND	0.015	0.038	ND	ND	0.011
MW-5	3/13/08	Associated	57.48	187.83	130.35	25.1	--	ND	--	ND	0.008	0.067	0.004	0.008	ND	0.018	0.042	ND	ND	0.017
MW-5	6/24/09	Associated	58.24	187.83	129.59	26.1	--	0.014	--	0.027	0.009	0.049	ND	ND	0.011	ND	ND	ND	ND	ND
MW-5	9/21/09	Associated	59.14	187.83	128.69	25.0	--	ND	--	ND	ND	0.061	ND	ND	ND	ND	0.038	ND	ND	ND
MW-5	12/17/09	Associated	59.72	187.83	128.11	24.0	--	ND	--	ND	ND	0.063	ND	ND	ND	ND	0.039	ND	ND	ND
MW-5	3/12/10	--	NA	187.83	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-1

Ground and Surface Water Monitoring Data and Selected Laboratory Analytical Results
Former Otay Skeet and Trap Shooting Range

Sample ID	Date Sampled	Laboratory	Depth to Water (fbtc)	Well Elevation (feet)	Ground-water Elevation (feet)	Perchlorate (µg/L)	Lead (unfiltered) (mg/L)	Lead (mg/L)	PAHs (µg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)
MW-6	3/1/04	--	65.32	189.74	124.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/12/04	Associated	64.21	189.74	125.53	12	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/12/04	Associated	64.76	189.74	124.98	16	0.025	0.014	ND	ND	0.013	0.024	ND	ND	0.021	ND	0.039	ND	0.011	ND
MW-6	5/12/04	Calscience	64.76	189.74	124.98	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/30/04	--	64.23	189.74	125.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/21/05	Associated	62.81	189.74	126.93	16.3	--	ND	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/2/05	Associated	64.30	189.74	125.44	16	--	0.009	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/14/05	Associated	64.45	189.74	125.29	20	--	0.010	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/18/07	Associated	62.16	189.74	127.58	14	--	ND	--	ND	0.005	0.039	0.004	ND	ND	0.006	ND	ND	ND	ND
MW-6	3/13/08	Associated	61.94	189.74	127.80	15.5	--	ND	--	ND	0.006	0.044	0.003	0.005	ND	0.008	0.030	ND	ND	0.015
MW-6	6/25/09	Associated	61.81	189.74	127.93	13.5	--	0.007	--	ND	0.006	0.034	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	9/23/09	Associated	62.87	189.74	126.87	13.4	--	ND	--	ND	ND	0.036	ND	ND	ND	ND	0.028	ND	ND	ND
MW-6	12/17/09	Associated	63.28	189.74	126.46	13.8	--	ND	--	ND	ND	0.031	ND	ND	ND	ND	0.025	ND	ND	ND
MW-6	3/12/10	Associated	61.69	189.74	128.05	10.8	--	0.008	--	ND	ND	0.038	ND	ND	ND	ND	ND	ND	0.008	ND
MW-7	3/1/04	--	54.95	181.43	126.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/12/04	Associated	54.80	181.43	126.63	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--
MW-7	5/12/04	Associated	54.81	181.43	126.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/30/04	--	55.45	181.43	125.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/21/05	--	53.64	181.43	127.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/2/05	--	54.15	181.43	127.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/14/05	--	54.08	181.43	127.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/17/07	Associated	54.14	181.43	127.29	5.0	--	ND	--	ND	ND	0.052	0.004	ND	ND	ND	0.005	ND	ND	ND
MW-7	3/13/08	Associated	53.29	181.43	128.14	ND	--	ND	--	ND	0.003	0.064	0.002	ND	ND	ND	0.007	ND	ND	0.023
MW-7	6/26/09	Associated	54.01	181.43	127.42	4.35	--	ND	--	ND	ND	0.041	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	9/23/09	Associated	55.11	181.43	126.32	ND	--	ND	--	ND	ND	0.053	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	12/17/09	Associated	55.04	181.43	126.39	4.21	--	ND	--	ND	ND	0.026	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	3/12/10	Associated	53.45	181.43	127.98	4.83	--	ND	--	ND	ND	0.054	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	3/1/04	--	17.03	147.07	130.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/12/04	Associated	16.95	147.07	130.12	ND	0.063	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	5/12/04	Associated	17.22	147.07	129.85	--	0.025	0.012	ND	ND	0.019	0.106	ND	ND	0.015	ND	ND	ND	ND	0.054
MW-8	6/30/04	--	18.15	147.07	128.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	1/21/05	--	15.38	147.07	131.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/2/05	--	16.39	147.07	130.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/14/05	--	16.31	147.07	130.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/17/07	Associated	16.59	147.07	130.48	ND	--	ND	--	ND	0.007	0.089	0.004	ND	ND	ND	ND	ND	ND	ND
MW-8	3/12/08	Associated	16.08	147.07	130.99	ND	--	ND	--	ND	0.012	0.104	0.002	ND	ND	ND	ND	ND	0.018	0.019
MW-8	6/24/09	Associated	16.91	147.07	130.16	ND	--	ND	--	ND	0.015	0.078	ND	ND	0.014	ND	ND	ND	0.012	ND
MW-8	9/21/09	Associated	18.18	147.07	128.89	ND	--	ND	--	ND	ND	0.084	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	12/15/09	Associated	17.50	147.07	129.57	ND	--	ND	--	ND	0.011	0.056	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	3/12/10	--	16.92	147.07	130.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-1	3/12/04	Associated	108.37	191.33	82.96	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-1	5/12/04	Associated	108.89	191.33	82.44	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--
AW-1	6/30/04	--	109.01	191.33	82.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-1	12/2/05	--	>100	191.33	<91.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-1

Ground and Surface Water Monitoring Data and Selected Laboratory Analytical Results
Former Otay Skeet and Trap Shooting Range

Sample ID	Date Sampled	Laboratory	Depth to Water (fbtc)	Well Elevation (feet)	Ground-water Elevation (feet)	Perchlorate (µg/L)	Lead (unfiltered) (mg/L)	Lead (mg/L)	PAHs (µg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)
												--	--	--	--	--	--	--	--	--
AW-2	3/12/04	Associated	62.50	190.21	127.71	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-2	5/12/04	Associated	62.32	190.21	127.89	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--
AW-2	6/30/04	--	62.35	190.21	127.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-2	12/2/05	--	61.27	190.21	128.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-3	3/12/04	--	145.24	207.54	62.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-3	3/15/04	--	174.80	207.54	32.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-3	5/12/04	Associated	137.25	207.54	70.29	ND	0.012	0.011	ND	ND	0.008	0.044	ND	ND	ND	ND	0.006	ND	ND	0.069
AW-3	5/12/04	Calscience	137.25	207.54	70.29	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AW-3	6/30/04	--	>150	207.54	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--
AW-3	12/17/07	Associated	--	--	--	ND	--	ND	--	ND	ND	0.040	ND	ND	0.006	0.006	0.011	ND	ND	0.043
AW-3	3/13/08	Associated	--	--	--	ND	--	ND	--	ND	0.003	0.069	ND	ND	ND	0.009	0.017	ND	ND	0.014
AW-3	6/25/09	Associated	--	--	--	ND	--	0.014	--	ND	ND	0.053	ND	ND	ND	ND	ND	ND	ND	ND
AW-3	9/28/09	Associated	--	--	--	ND	--	ND	--	ND	ND	0.058	ND	ND	ND	ND	ND	ND	ND	ND
AW-3	12/17/09	Associated	--	--	--	ND	--	ND	--	ND	ND	0.037	ND	ND	ND	ND	ND	ND	ND	ND
AW-3	3/12/10	Associated	--	--	--	ND	--	ND	--	ND	ND	0.046	ND	ND	ND	ND	ND	ND	ND	ND
River-1	5/21/04	Associated	--	--	--	ND	--	ND	--	--	ND	--	--	--	--	--	--	--	--	--
River-2	5/21/04	Associated	--	--	--	ND	--	ND	--	--	ND	--	--	--	--	--	--	--	--	--
River-3	5/21/04	Associated	--	--	--	ND	--	ND	--	--	ND	--	--	--	--	--	--	--	--	--
RMW-1	6/30/04	Associated	3.43	138.33	134.90	4.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	1/21/05	Associated	1.52	138.33	136.81	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	12/2/05	--	1.90	138.33	136.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	12/14/05	--	1.95	138.33	136.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	12/17/07	Associated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	3/12/08	Associated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	6/25/09	--	2.04	138.33	136.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	9/21/09	--	4.06	138.33	134.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	12/16/09	--	1.60	138.33	136.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-1	3/12/10	--	1.56	138.33	136.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2	6/30/04	Associated	4.39	138.76	134.37	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2	1/21/05	--	2.14	138.76	136.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2	12/17/07	Associated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2	3/12/08	Associated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2	6/25/09	--	2.14	138.76	136.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2	9/21/09	--	4.05	138.76	134.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2	12/16/09	--	1.60	138.76	137.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2	3/12/10	--	0.92	138.76	137.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-3	6/30/04	Associated	50.03	138.78	88.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-3	1/21/05	--	49.55	138.78	89.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-3	12/18/07	Associated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-3	3/12/08	Associated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-3	6/25/09	--	45.39	138.78	93.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-3	9/21/09	--	45.26	138.78	93.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-3	12/16/09	--	45.26	138.78	93.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RMW-3	3/12/10	--	45.00	138.78	93.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

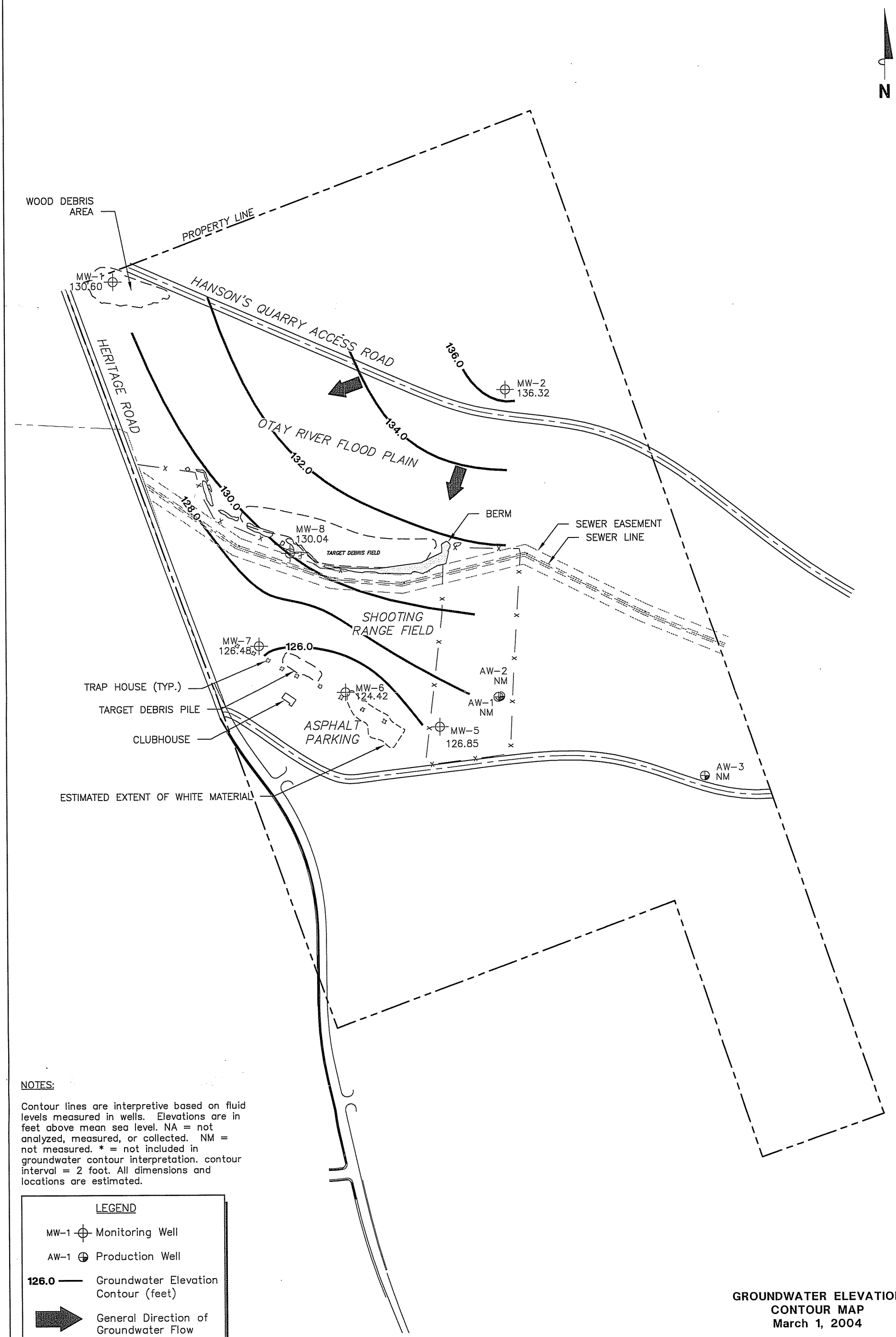
Table 3-1

Ground and Surface Water Monitoring Data and Selected Laboratory Analytical Results
Former Otay Skeet and Trap Shooting Range

Sample ID	Date Sampled	Laboratory	Depth to Water (fbtc)	Well Elevation (feet)	Ground-water Elevation (feet)	Perchlorate (µg/L)	Lead (unfiltered) (mg/L)	Lead (mg/L)	PAHs (µg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)
Equipment Blank	5/12/04	Associated	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Equipment Blank	5/12/04	Calscience	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Travel Blank	5/12/04	Associated	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Travel Blank	5/12/04	Calscience	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Blank	5/12/04	Associated	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Blank	5/12/04	Calscience	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

fbtc = feet below top of casing
µg/L = micrograms per liter
mg/L = milligrams per liter
PAHs = polynuclear aromatic hydrocarbons
DUP = duplicate
-- = not sampled and/or not analyzed
Calscience = Calscience Environmental Laboratories, Inc;
Associated = Associated Laboratories
ND = Not Detected at Limit Indicated on Official Laboratory Report
Samples collected for metal analyses were collected in containers without preservative and filtered before being analyzed unless specified.
Unfiltered = sample collected in container with preservative and not filtered before analysis
Well AW-3 was not sampled if actively or recently pumping



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. * = not included in groundwater contour interpretation. contour interval = 2 foot. All dimensions and locations are estimated.

LEGEND

- MW-1 — Monitoring Well
- AW-1 — Production Well
- 126.0 — Groundwater Elevation Contour (feet)
- General Direction of Groundwater Flow
- Property Line
- Fence

SCALE (FEET)

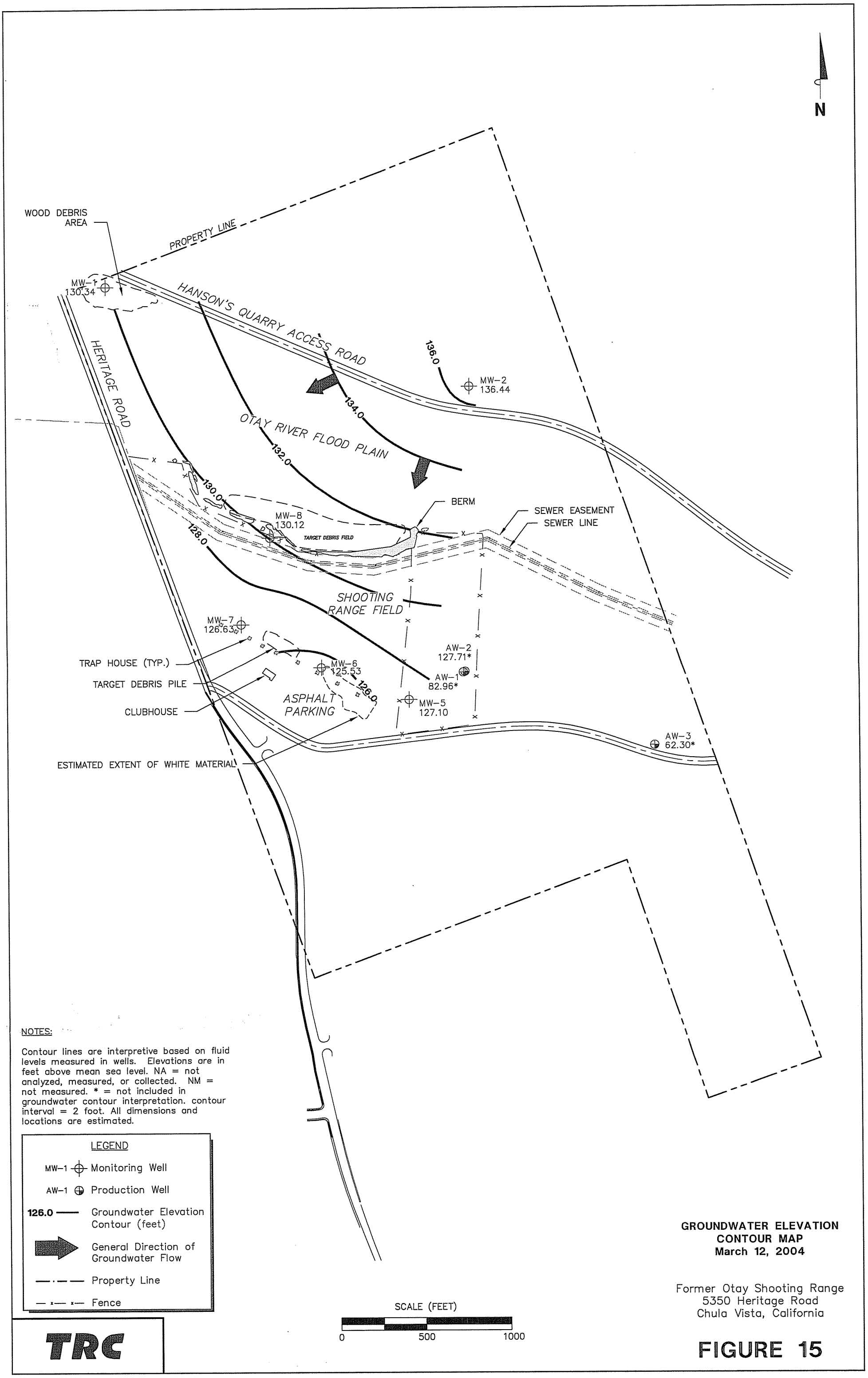
0 500 1000

TRC

GROUNDWATER ELEVATION CONTOUR MAP
March 1, 2004

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 14



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. * = not included in groundwater contour interpretation. contour interval = 2 foot. All dimensions and locations are estimated.

LEGEND

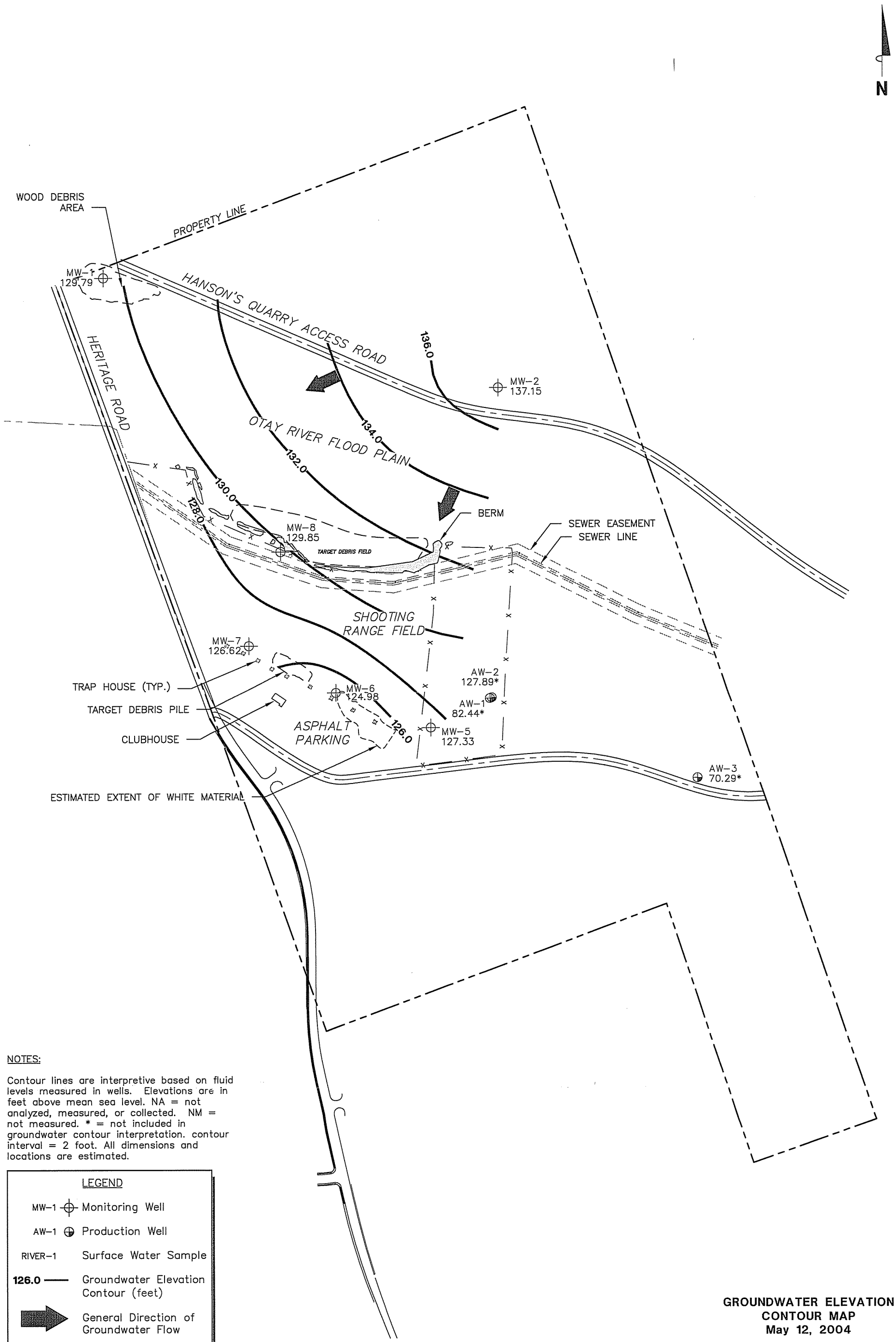
- MW-1 — Monitoring Well
- AW-1 — Production Well
- 126.0 — Groundwater Elevation Contour (feet)
- General Direction of Groundwater Flow
- Property Line
- Fence

TRC

GROUNDWATER ELEVATION CONTOUR MAP
March 12, 2004

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 15



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. * = not included in groundwater contour interpretation. contour interval = 2 foot. All dimensions and locations are estimated.

LEGEND

- MW-1 — Monitoring Well
- AW-1 — Production Well
- RIVER-1 — Surface Water Sample
- 126.0 — Groundwater Elevation Contour (feet)
- General Direction of Groundwater Flow
- Property Line
- Fence

SCALE (FEET)

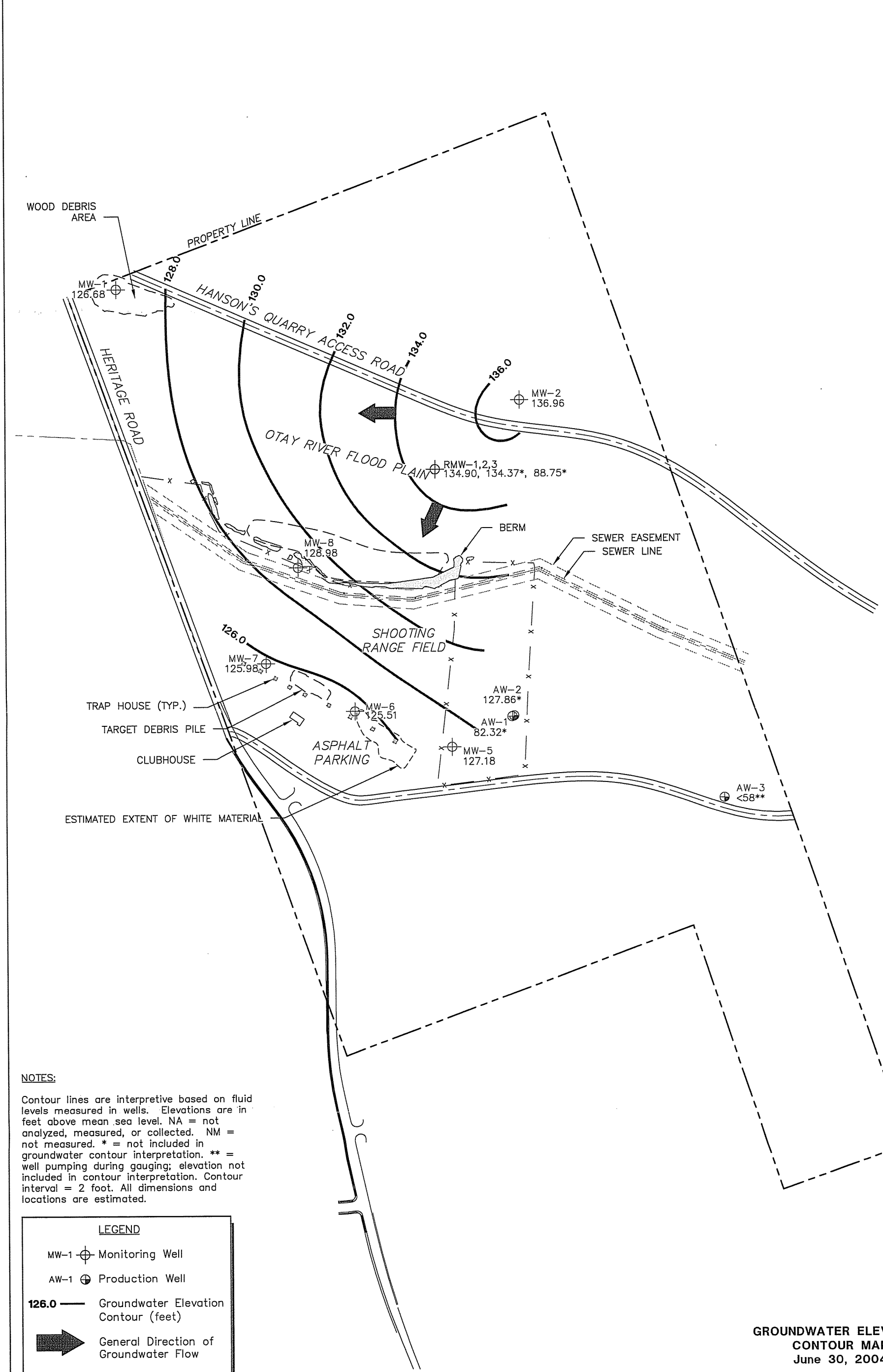
0 500 1000

TRC

GROUNDWATER ELEVATION CONTOUR MAP
May 12, 2004

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 16



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. * = not included in groundwater contour interpretation. ** = well pumping during gauging; elevation not included in contour interpretation. Contour interval = 2 foot. All dimensions and locations are estimated.

LEGEND

- MW-1 — Monitoring Well
- AW-1 — Production Well
- 126.0 — Groundwater Elevation Contour (feet)
- General Direction of Groundwater Flow
- Property Line
- Fence

SCALE (FEET)

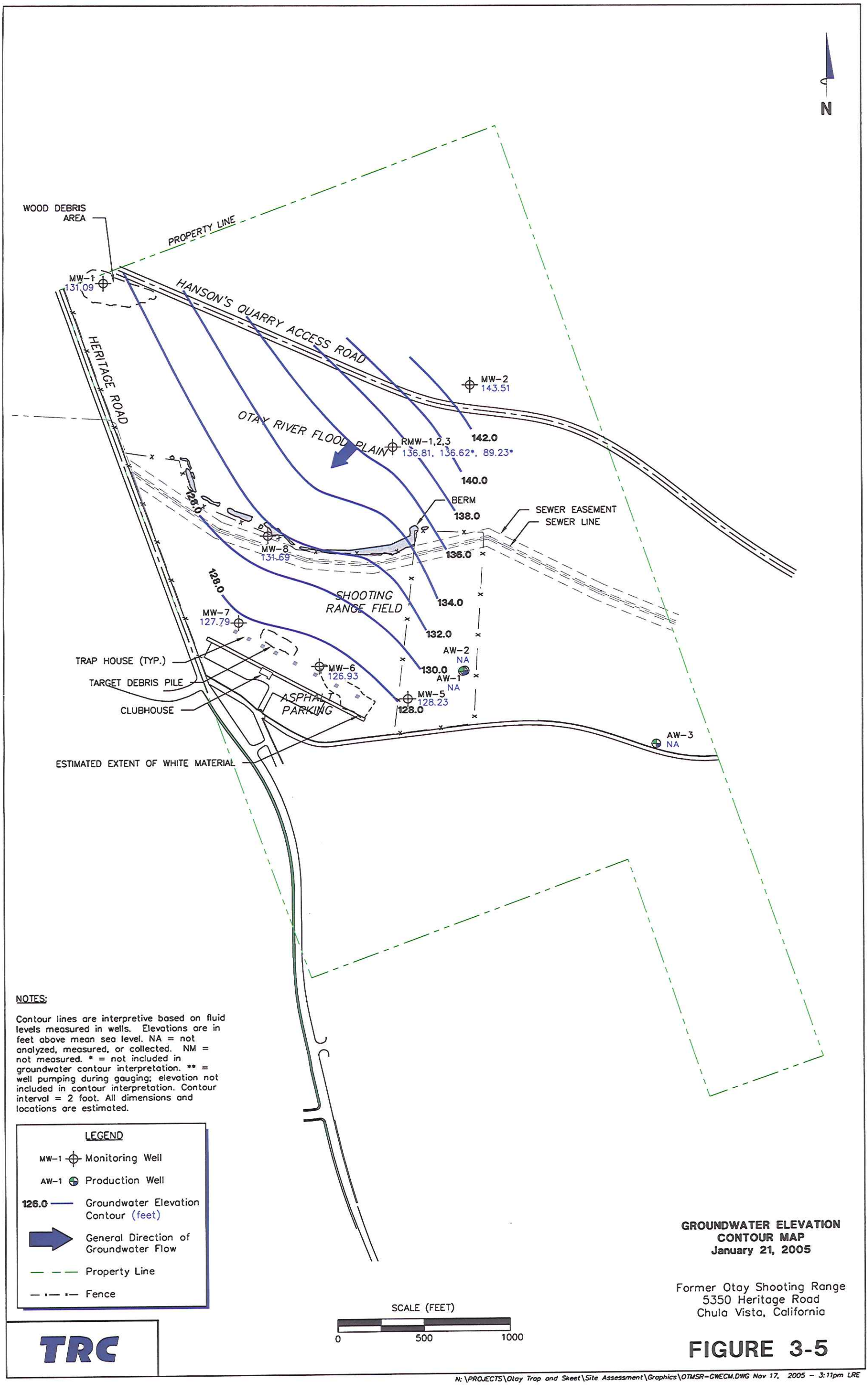
0 500 1000

TRC

GROUNDWATER ELEVATION CONTOUR MAP
June 30, 2004

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 17

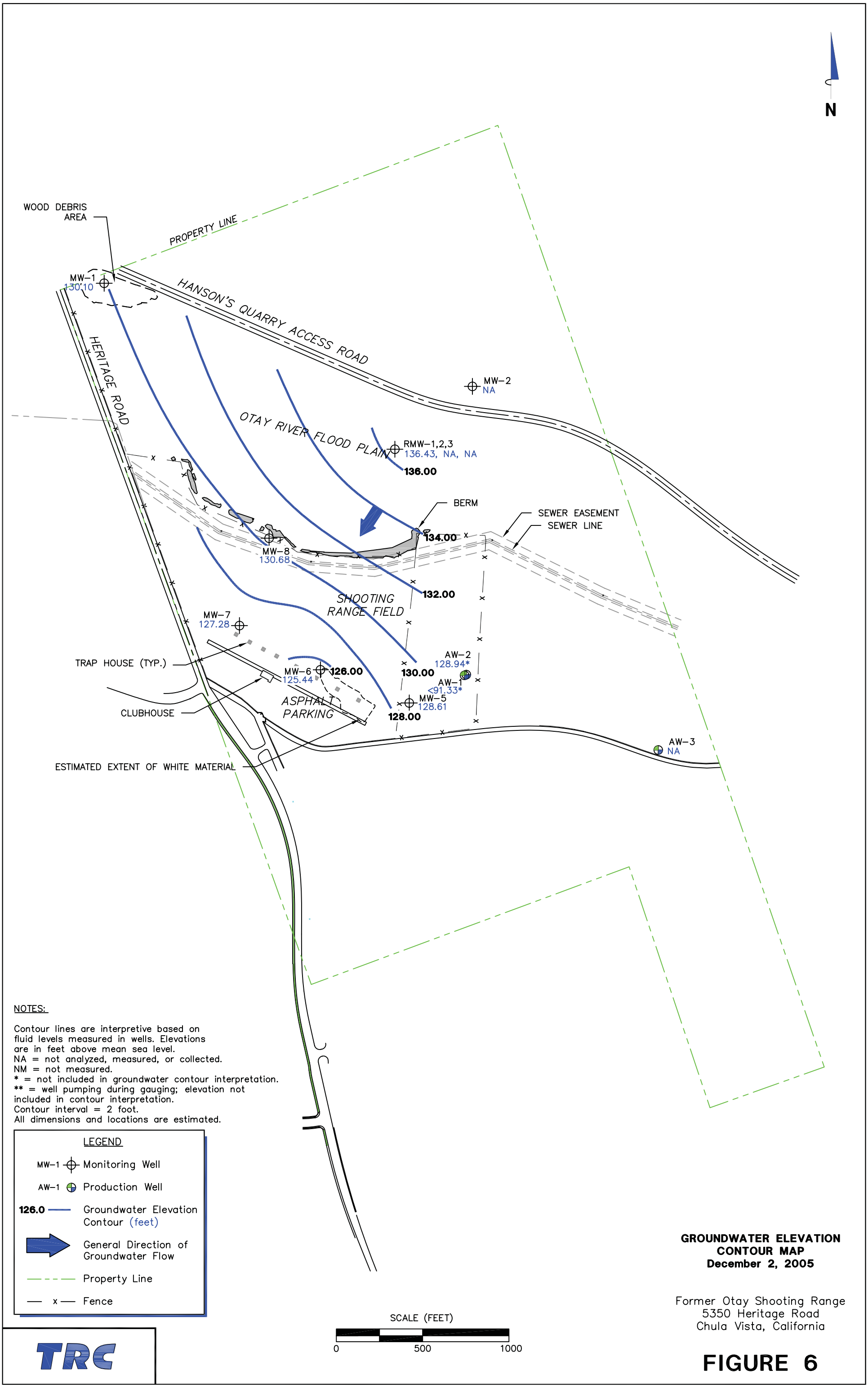


GROUNDWATER ELEVATION CONTOUR MAP
January 21, 2005

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 3-5

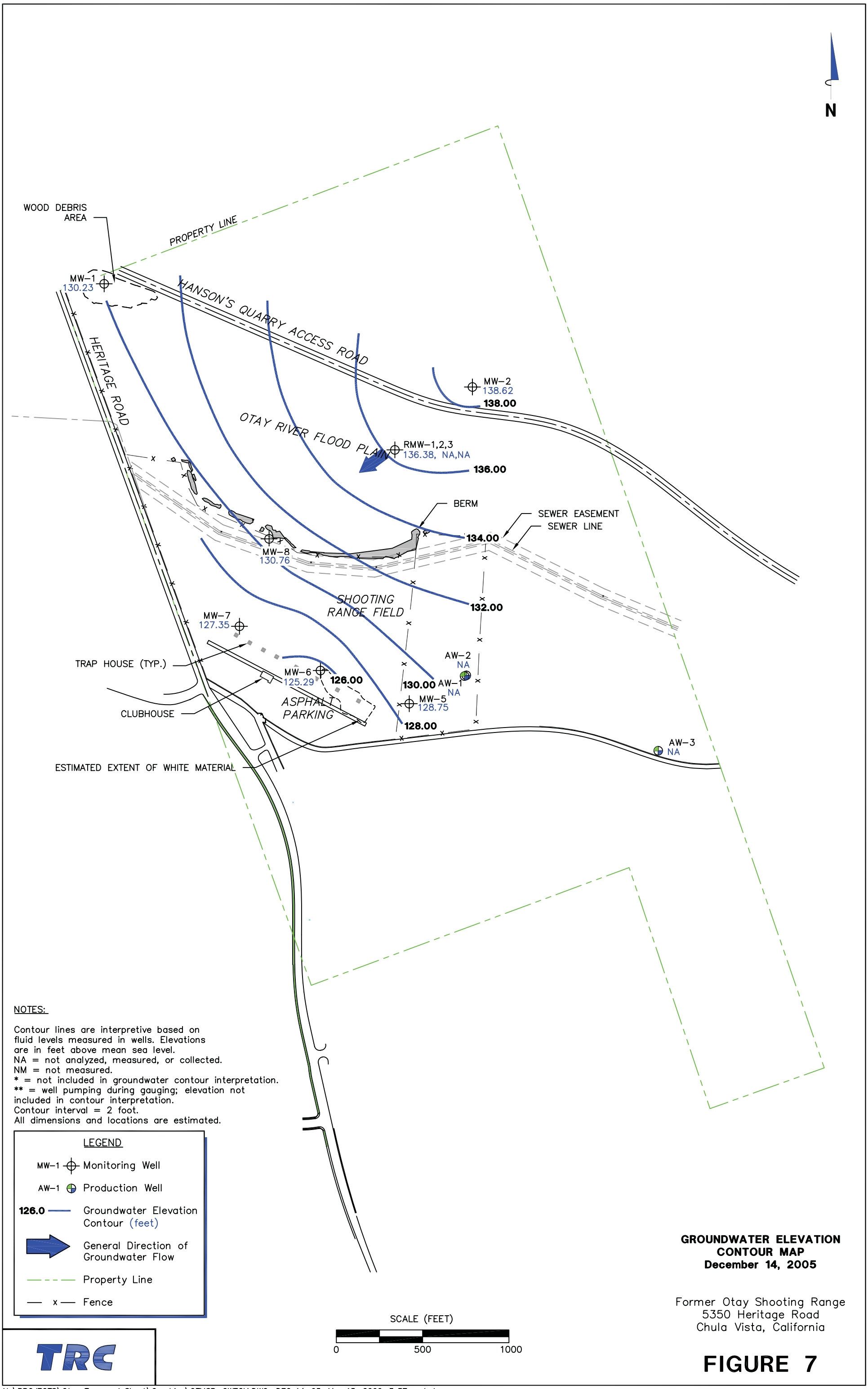
N:\PROJECTS\Otay Trap and Skeet\Site Assessment\Graphics\OTMSR-GWECM.DWG Nov 17, 2005 - 3:11pm LRE



GROUNDWATER ELEVATION CONTOUR MAP
December 2, 2005

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 6



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level.
NA = not analyzed, measured, or collected.
NM = not measured.
* = not included in groundwater contour interpretation.
** = well pumping during gauging; elevation not included in contour interpretation.
Contour interval = 2 foot.
All dimensions and locations are estimated.

LEGEND

- MW-1 — Monitoring Well
- AW-1 — Production Well
- 126.0 — Groundwater Elevation Contour (feet)
- General Direction of Groundwater Flow
- Property Line
- x — Fence

TRC

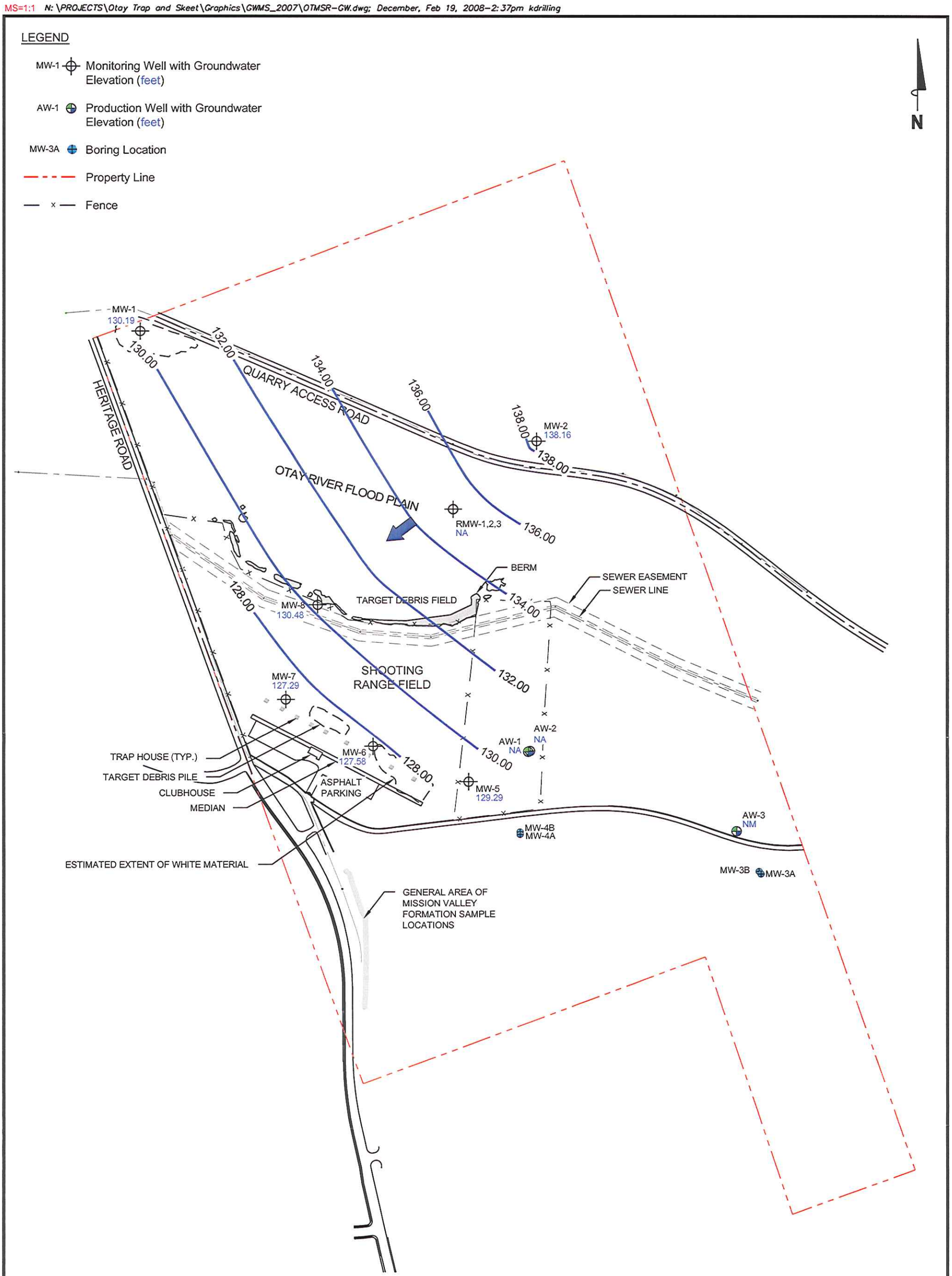
GROUNDWATER ELEVATION CONTOUR MAP
December 14, 2005

Former Otay Shooting Range
5350 Heritage Road
Chula Vista, California

FIGURE 7

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-GWECM.DWG; DEC 14-05, Mar 15, 2006-3:37pm ledge

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2007\OTMSR-GW.dwg; December, Feb 19, 2008-2:37pm kdrilling



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. All dimensions and locations are approximate.

SCALE (FEET)
0 500

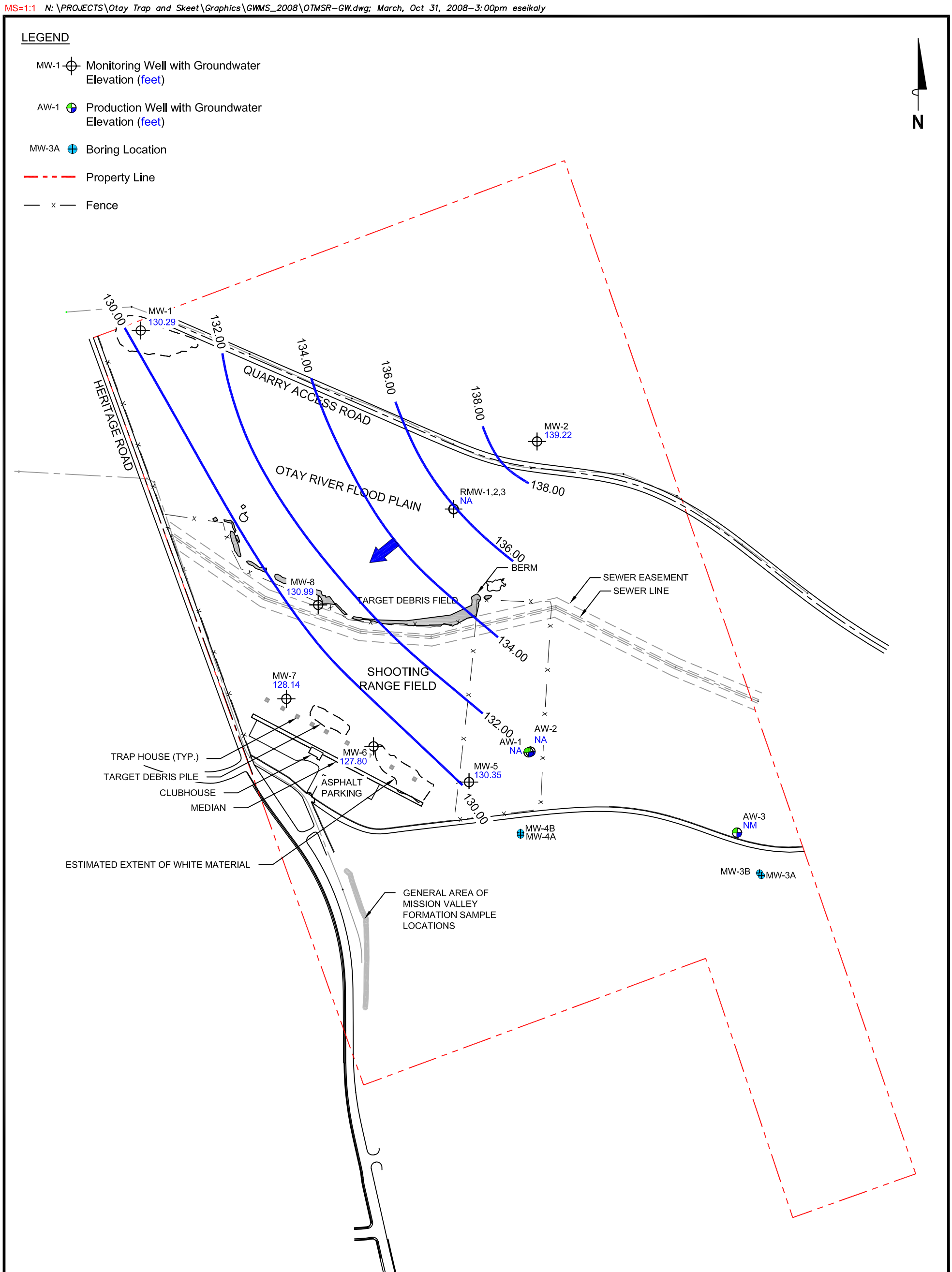
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

GROUNDWATER ELEVATION CONTOUR MAP
December 17 and 18, 2007

FIGURE 4-1

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2008\OTMSR-GW.dwg; March, Oct 31, 2008-3:00pm eseikaly



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. All dimensions and locations are approximate.

SCALE (FEET)
0 500

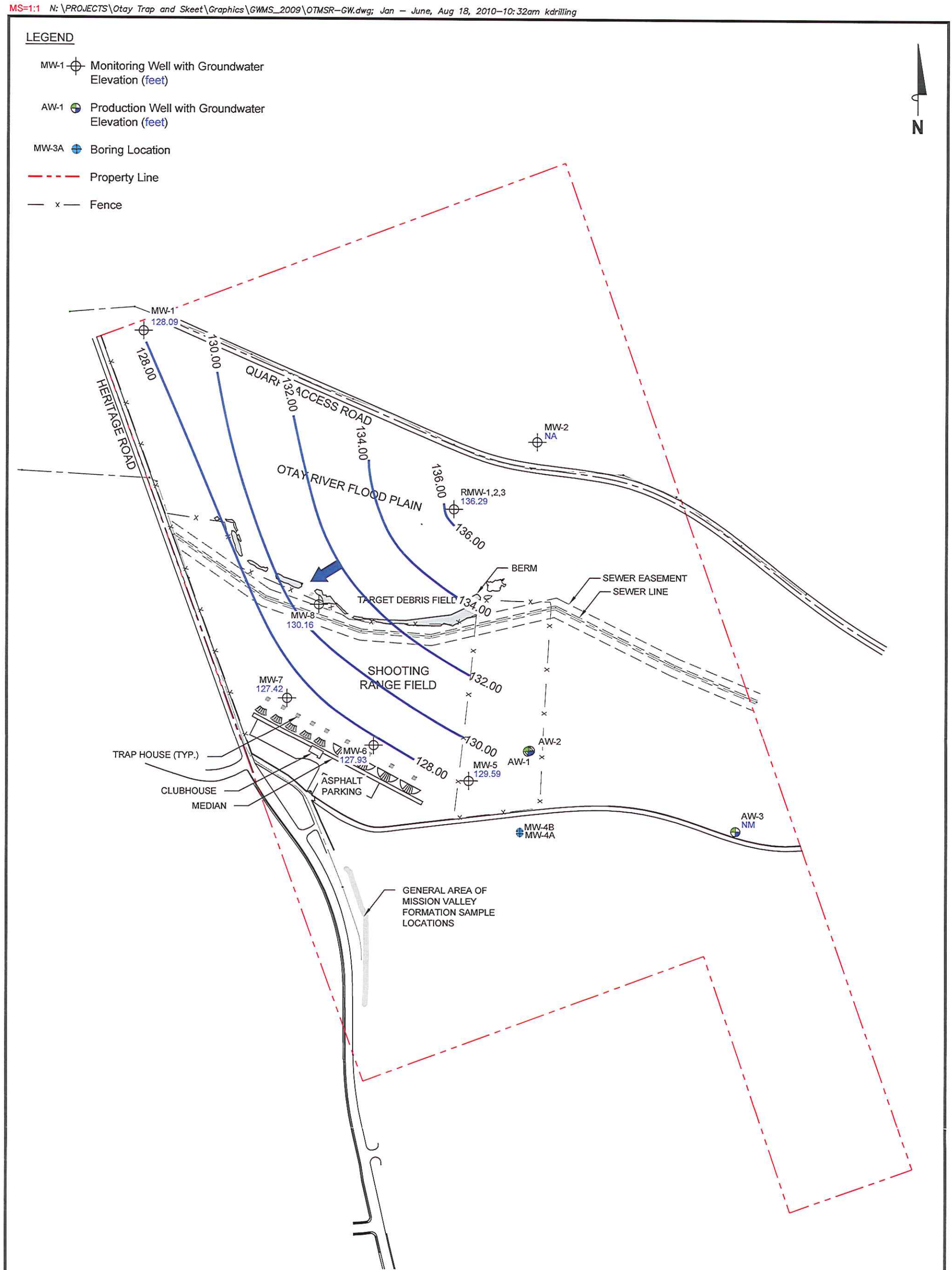
TRC

FACILITY:
Former Otay Skeet and
Trap Shooting Range
5350 Heritage Road
Chula Vista, California

GROUNDWATER ELEVATION CONTOUR MAP
March 12 and 13, 2008

FIGURE 4-1

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2009\OTMSR-GW.dwg; Jan - June, Aug 18, 2010-10:32am kdrilling



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. All dimensions and locations are approximate.

SCALE (FEET)
0 500

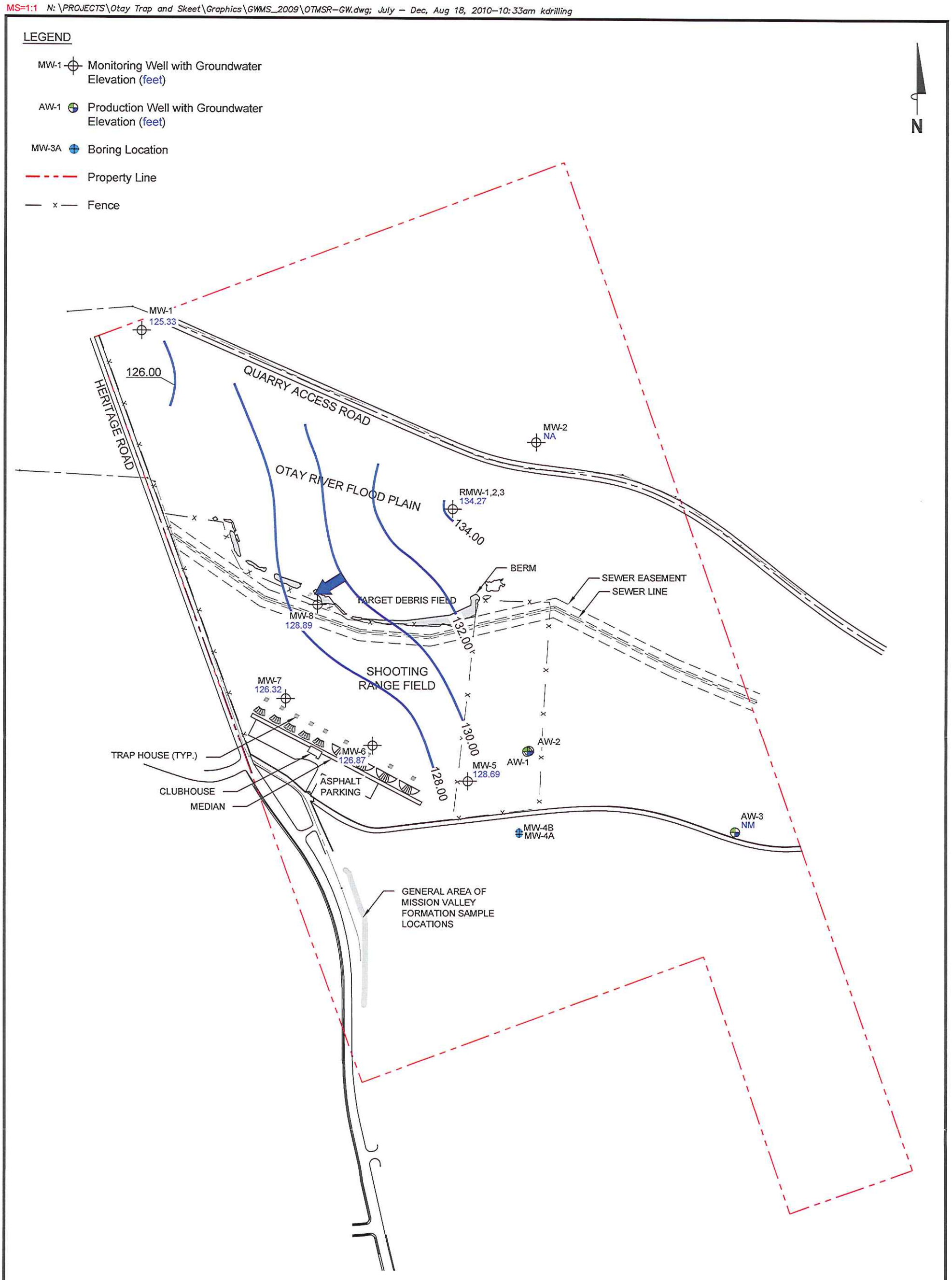
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

GROUNDWATER ELEVATION CONTOUR MAP
Second Quarter, 2009

FIGURE 3-1

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2009\OTMSR-GW.dwg; July - Dec, Aug 18, 2010-10:33am kdrilling



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. All dimensions and locations are approximate.

SCALE (FEET)
0 500

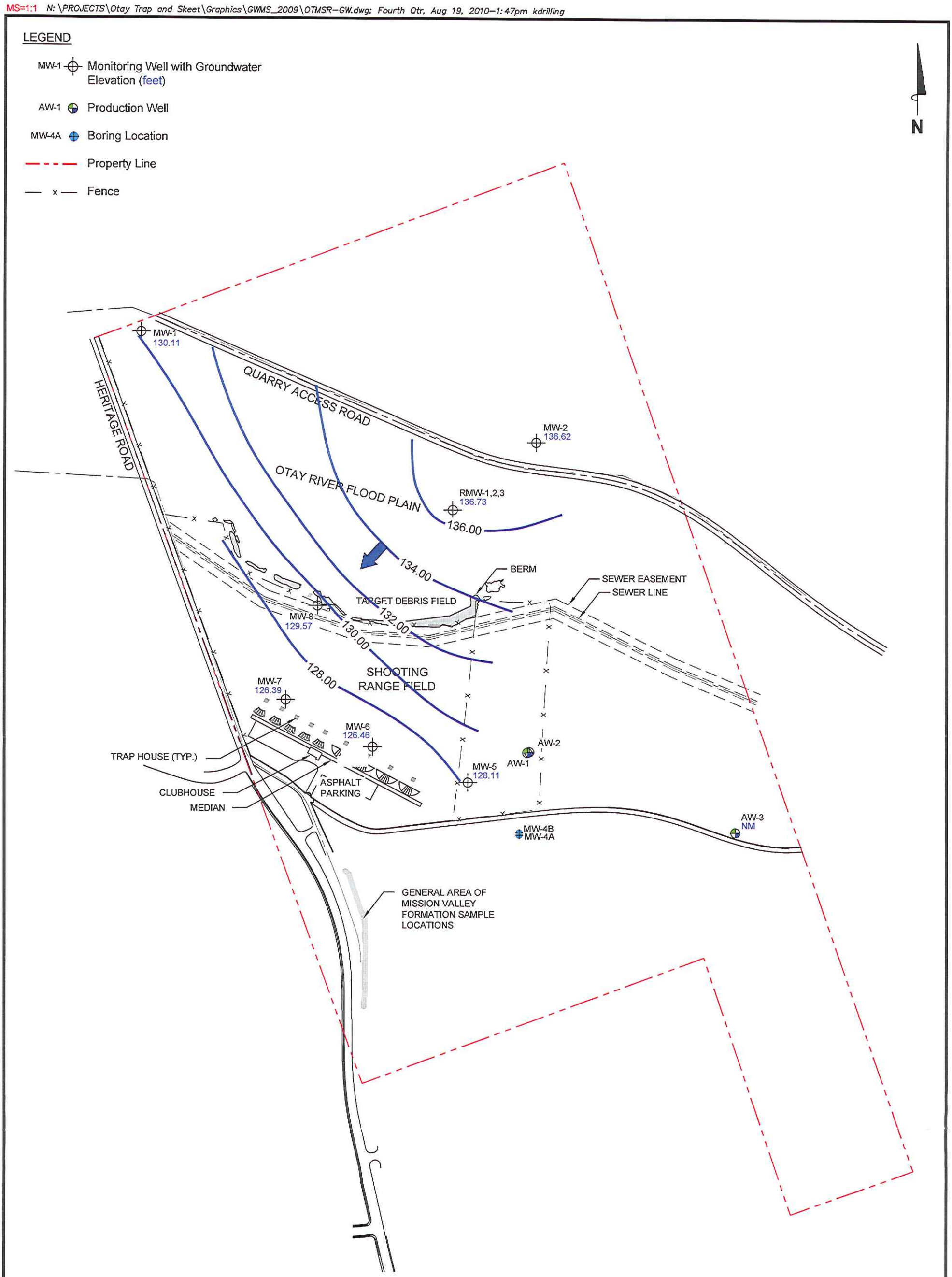
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

GROUNDWATER ELEVATION CONTOUR MAP
Third Quarter, 2009

FIGURE 3-2

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2009\OTMSR-GW.dwg; Fourth Qtr, Aug 19, 2010-1:47pm kdrilling



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. All dimensions and locations are approximate.

SCALE (FEET)
0 500

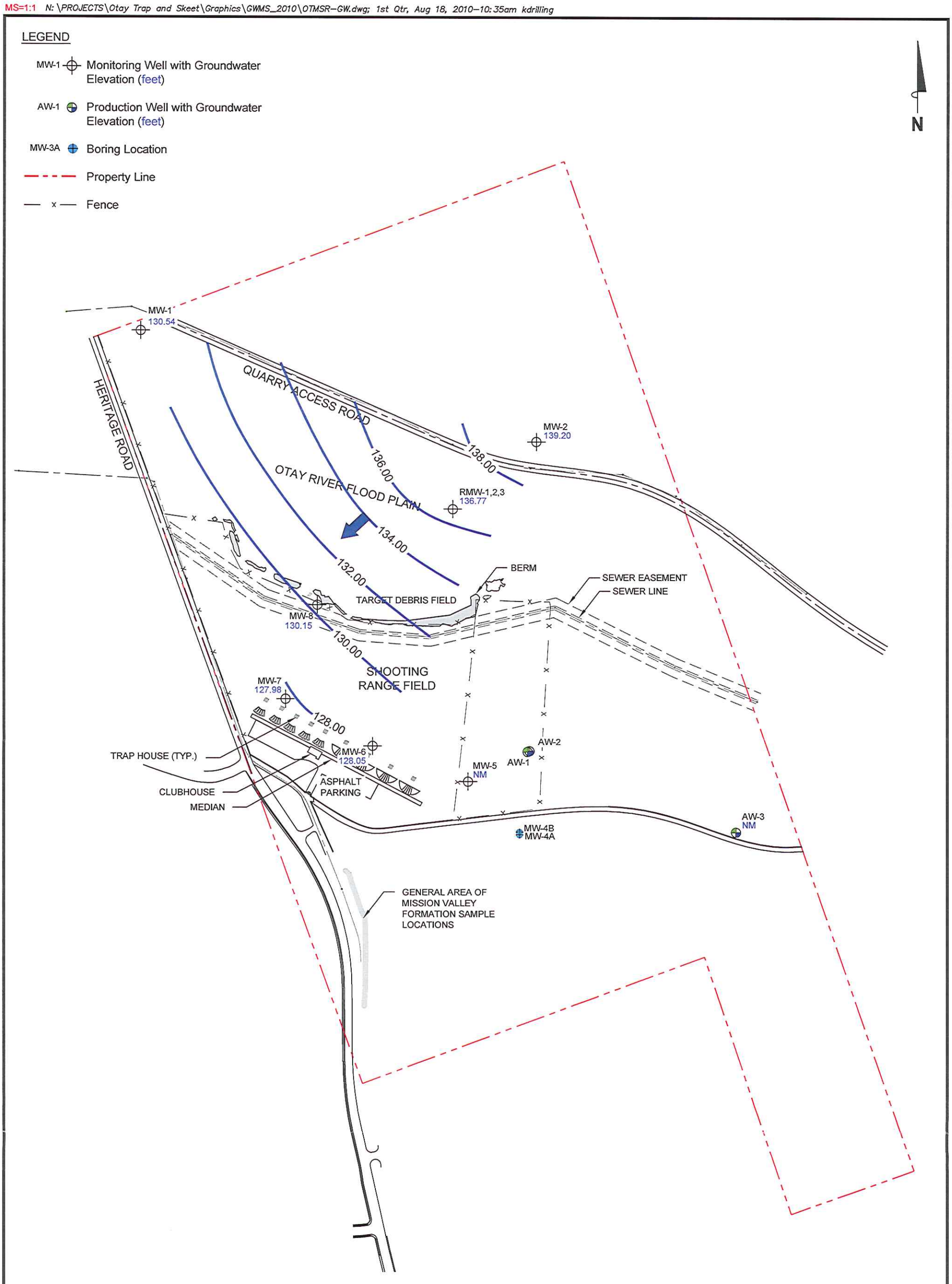
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

GROUNDWATER ELEVATION CONTOUR MAP
Fourth Quarter, 2009

FIGURE 3-3

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2010\OTMSR-GW.dwg; 1st Qtr, Aug 18, 2010-10:35am kdrilling



NOTES:

Contour lines are interpretive based on fluid levels measured in wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. NM = not measured. All dimensions and locations are approximate.

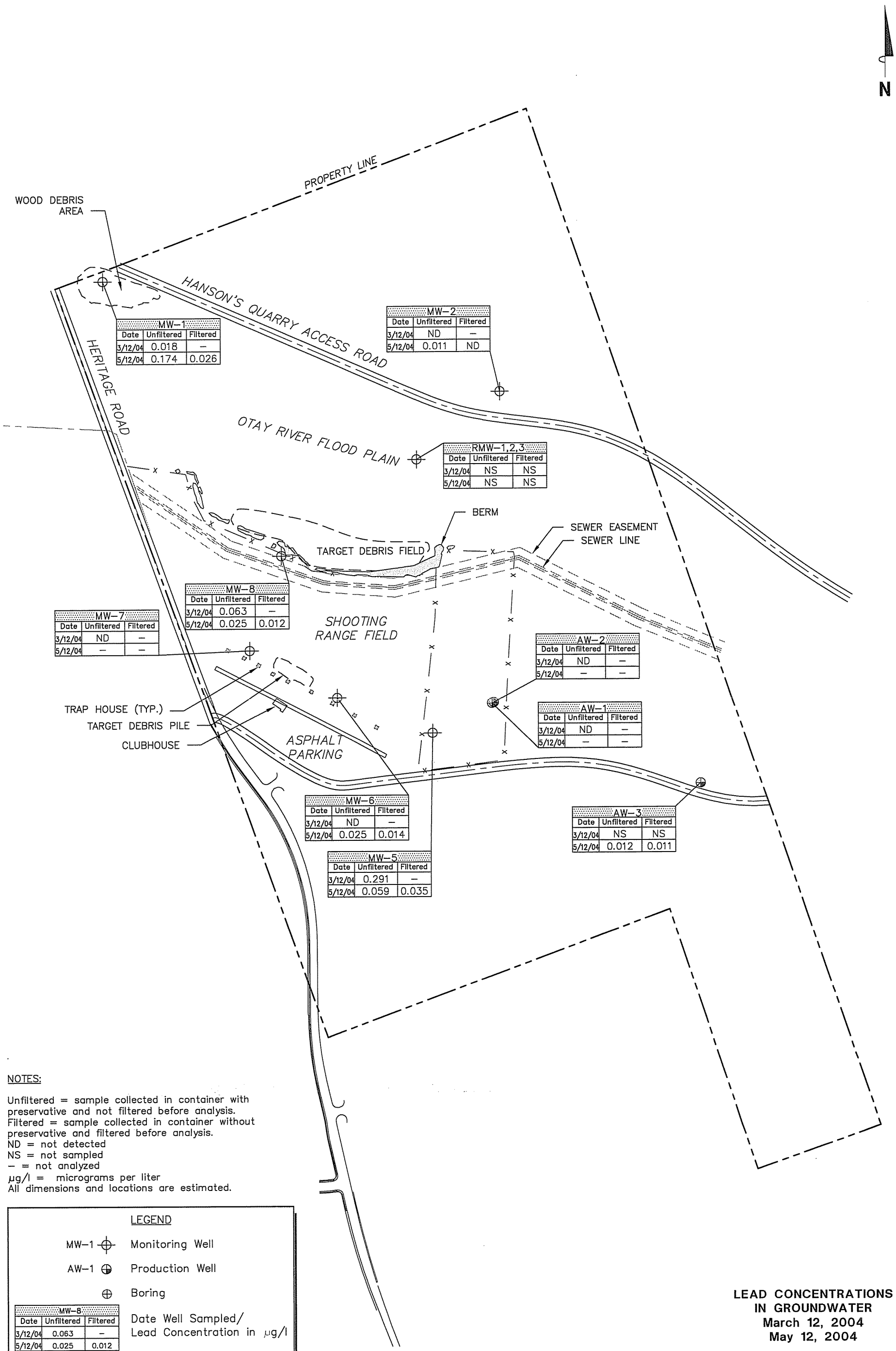
SCALE (FEET)
0 500

TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

GROUNDWATER ELEVATION CONTOUR MAP
First Quarter, 2010

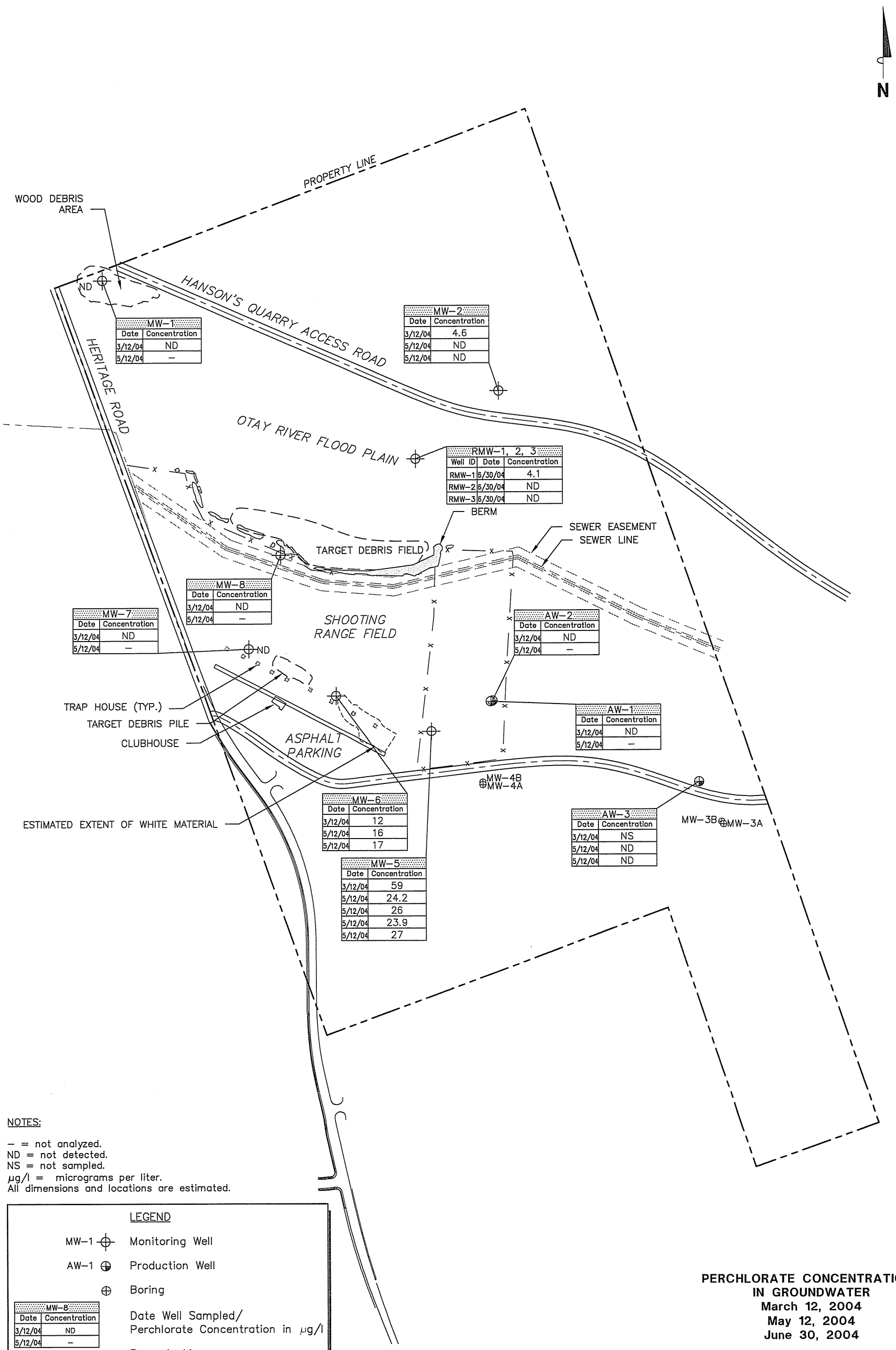
FIGURE 3-4



LEAD CONCENTRATIONS IN GROUNDWATER
March 12, 2004
May 12, 2004

Former Otay Shooting Range & Vicinity
5350 Heritage Road
Chula Vista, California

FIGURE 18

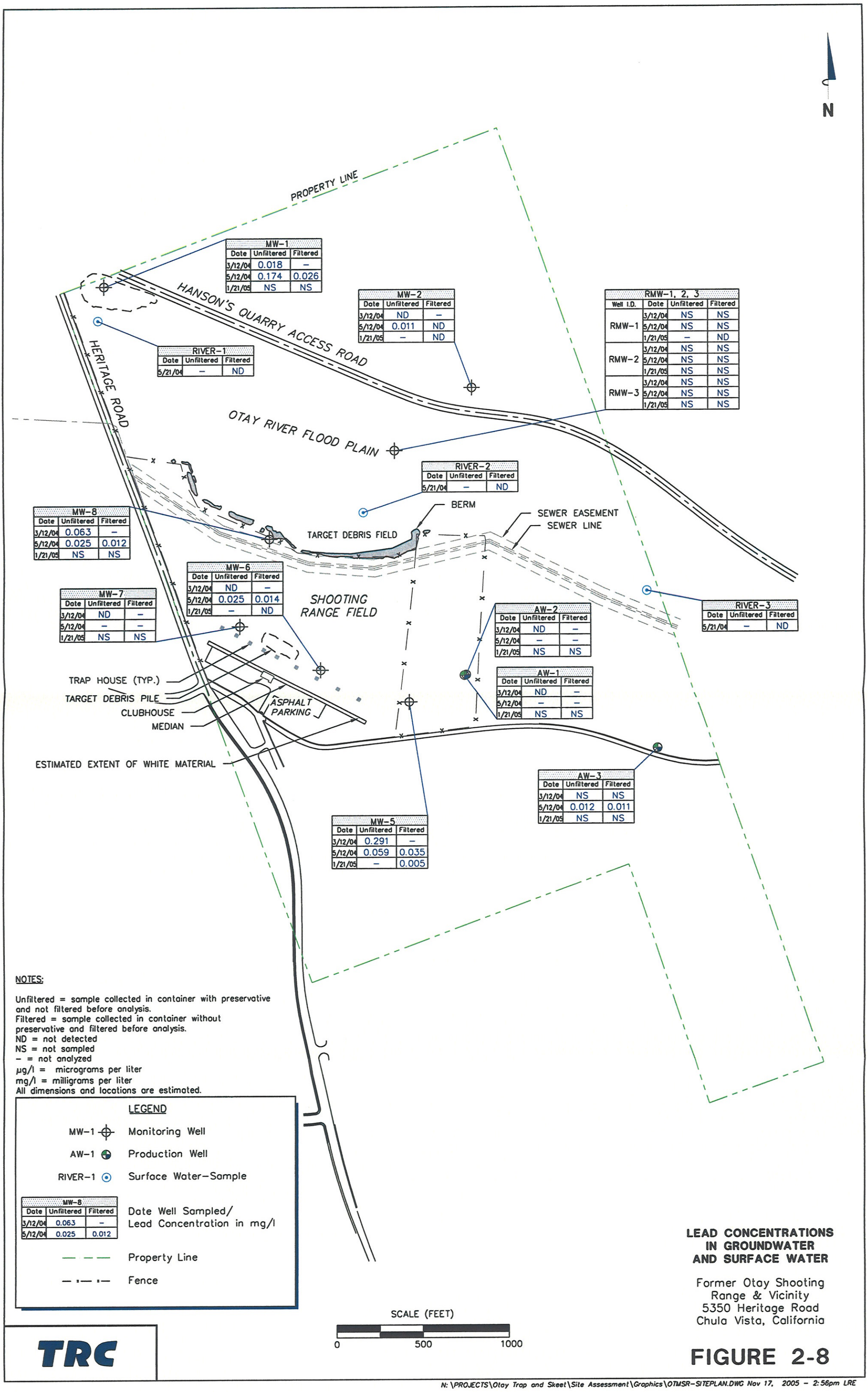


PERCHLORATE CONCENTRATIONS IN GROUNDWATER
March 12, 2004
May 12, 2004
June 30, 2004

Former Otay Shooting Range & Vicinity
5350 Heritage Road
Chula Vista, California

TRC

FIGURE 19

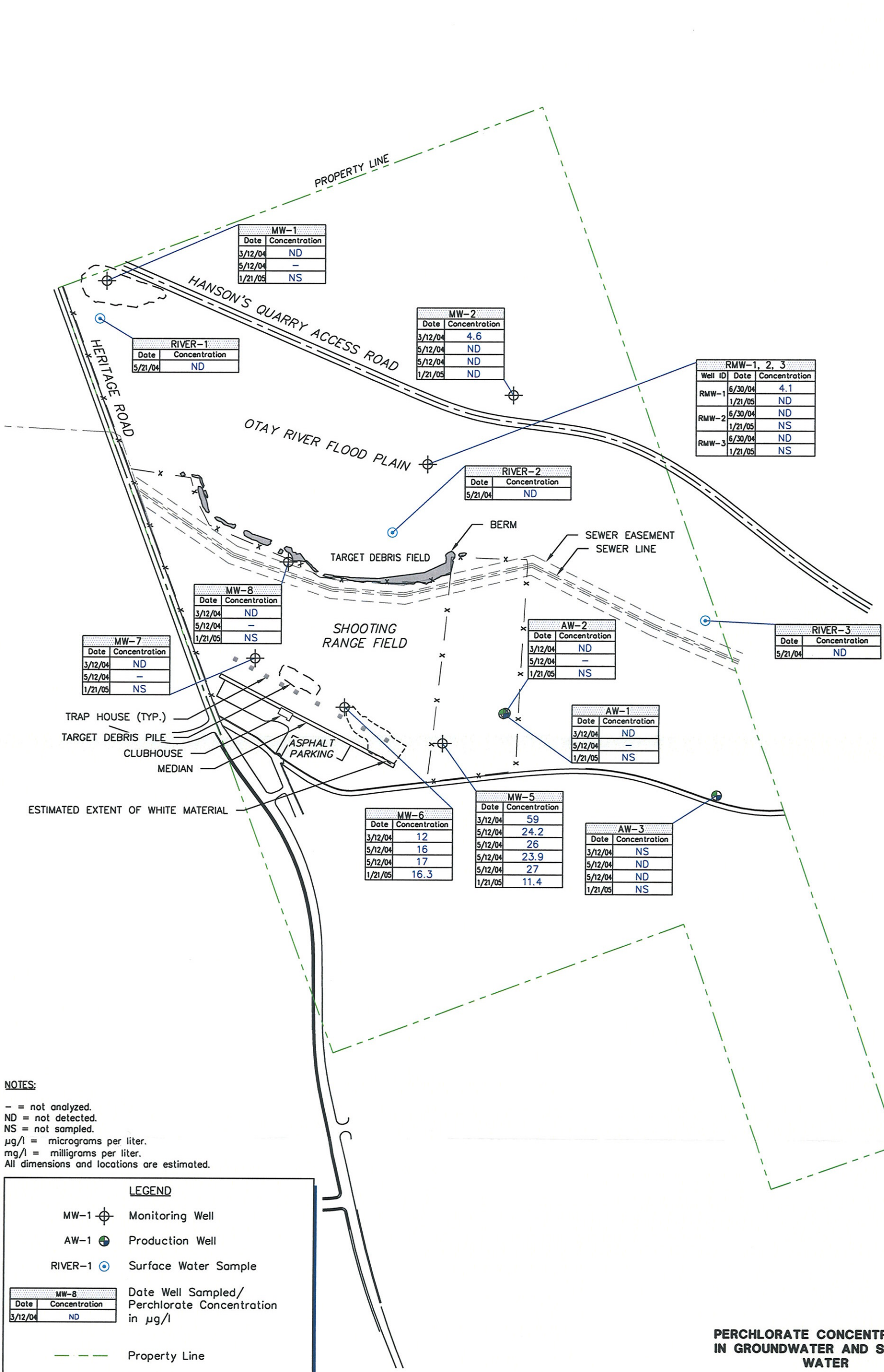


LEAD CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER

Former Otay Shooting Range & Vicinity
5350 Heritage Road
Chula Vista, California

FIGURE 2-8

N:\PROJECTS\Otay Trap and Skeet\Site Assessment\Graphics\OTMSR-SITEPLAN.DWG Nov 17, 2005 – 2:56pm LRE



NOTES:

– = not analyzed.
ND = not detected.
NS = not sampled.
µg/l = micrograms per liter.
mg/l = milligrams per liter.
All dimensions and locations are estimated.

LEGEND

MW-1 Monitoring Well

AW-1 Production Well

RIVER-1 Surface Water Sample

MW-8
Date Concentration
3/12/04 ND

Date Well Sampled/ Perchlorate Concentration in µg/l

Property Line

Fence

SCALE (FEET)

0 500 1000

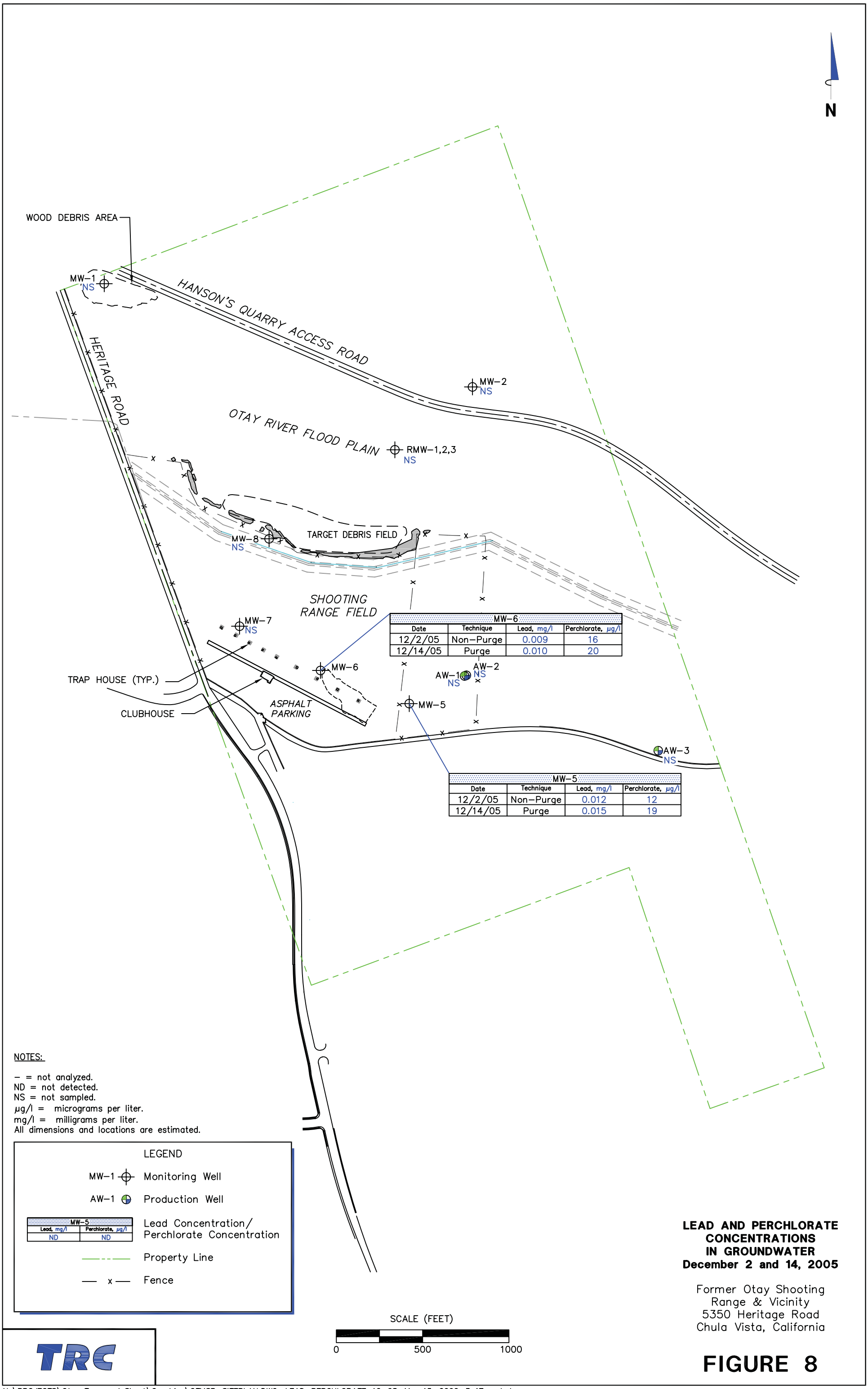
TRC

PERCHLORATE CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER

Former Otay Shooting Range & Vicinity
5350 Heritage Road
Chula Vista, California

FIGURE 2-9

N:\PROJECTS\Otay Trap and Skeet\Site Assessment\Graphics\OTMSR-SITEPLAN.DWG Nov 18, 2005 – 1:50pm BM



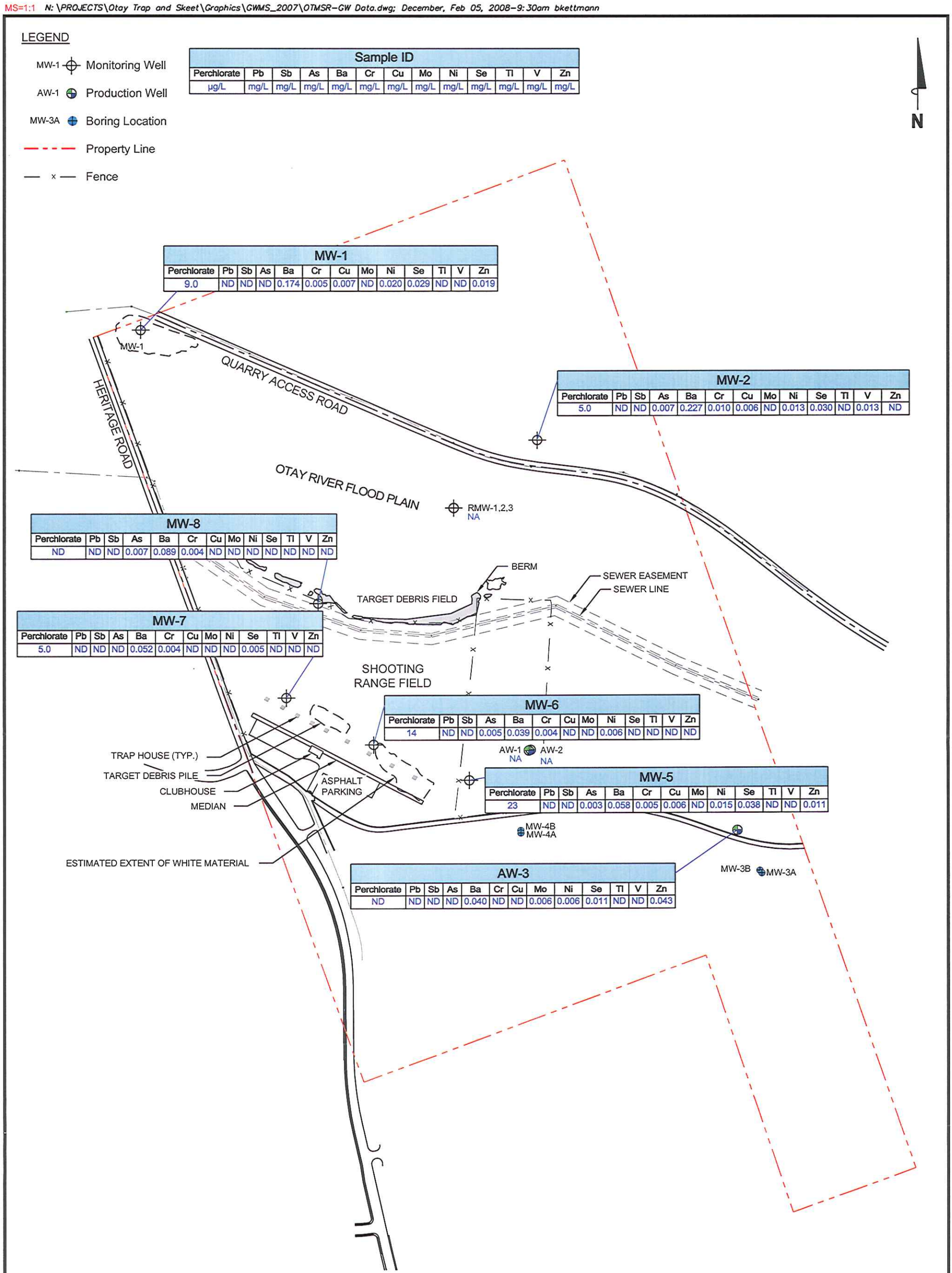
LEAD AND PERCHLORATE CONCENTRATIONS IN GROUNDWATER December 2 and 14, 2005

Former Otay Shooting Range & Vicinity
5350 Heritage Road
Chula Vista, California

FIGURE 8

N:\PROJECTS\Otay Trap and Skeet\Graphics\OTMSR-SITEPLAN.DWG; LEAD-PERCHLORATE_12-05, Mar 15, 2006-3:47pm ledge

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2007\OTMSR-GW Data.dwg; December, Feb 05, 2008-9:30am bkettmann



NOTES:

Pb = lead. Sb = antimony. As = arsenic. Ba = barium. Cr = chromium. Cu = copper. Mo = molybdenum. Ni = nickel. Se = selenium. Tl = thallium. V = vanadium. Zn = zinc. ND = not detected at limit indicated on official laboratory report. µg/L = micrograms per liter. mg/L = milligrams per liter. NA = not measured and/or analyzed. All dimensions and locations are approximate.

SCALE (FEET)
0 500

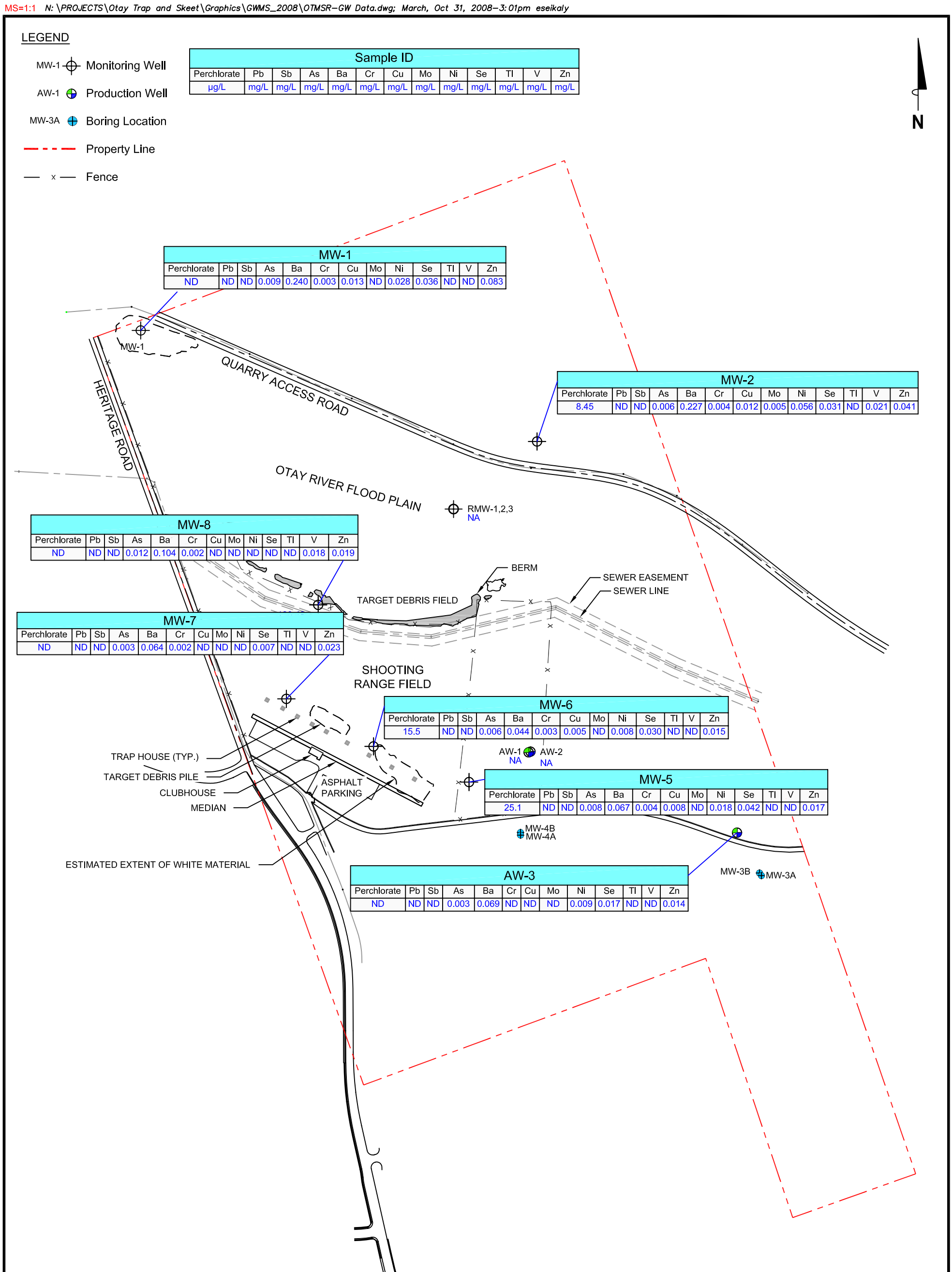
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

PERCHLORATE AND TITLE 22 METAL CONCENTRATIONS IN GROUNDWATER
December 17 and 18, 2007

FIGURE 4-2

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2008\OTMSR-GW Data.dwg; March, Oct 31, 2008-3:01pm eseikaly



Sample ID												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

MW-1												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	0.009	0.240	0.003	0.013	ND	0.028	0.036	ND	ND	0.083

MW-2												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
8.45	ND	ND	0.006	0.227	0.004	0.012	0.005	0.056	0.031	ND	0.021	0.041

MW-8												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	0.012	0.104	0.002	ND	ND	ND	ND	ND	0.018	0.019

MW-7												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	0.003	0.064	0.002	ND	ND	ND	0.007	ND	ND	0.023

MW-6												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
15.5	ND	ND	0.006	0.044	0.003	0.005	ND	0.008	0.030	ND	ND	0.015

MW-5												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
25.1	ND	ND	0.008	0.067	0.004	0.008	ND	0.018	0.042	ND	ND	0.017

AW-3												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	0.003	0.069	ND	ND	ND	0.009	0.017	ND	ND	0.014

NOTES:

Pb = lead. Sb = antimony. As = arsenic. Ba = barium. Cr = chromium. Cu = copper. Mo = molybdenum. Ni = nickel. Se = selenium. Tl = thallium. V = vanadium. Zn = zinc. ND = not detected at limit indicated on official laboratory report. µg/L = micrograms per liter. mg/L = milligrams per liter. NA = not measured and/or analyzed. All dimensions and locations are approximate.

SCALE (FEET)
0 500

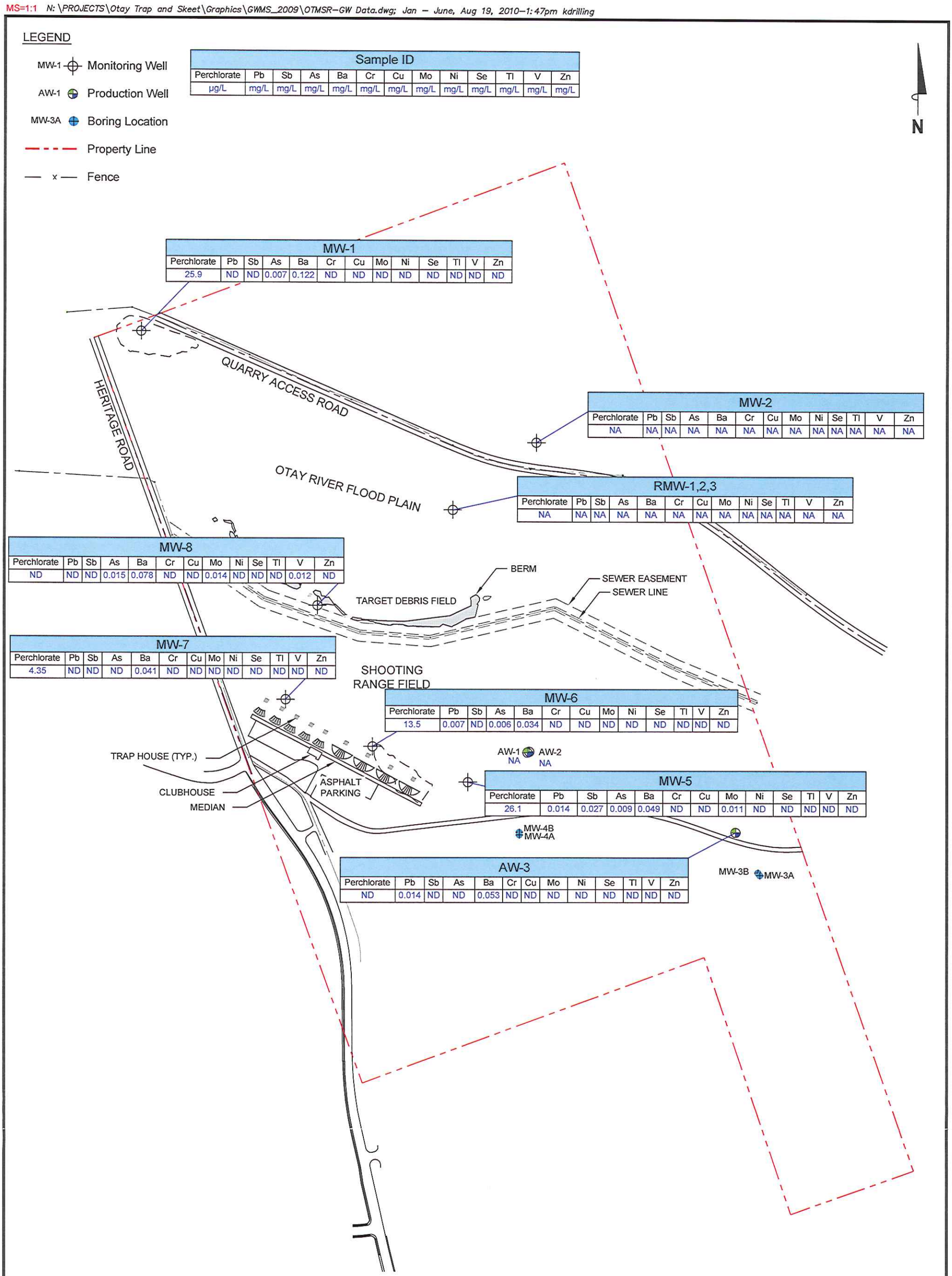
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

PERCHLORATE AND TITLE 22 METAL CONCENTRATIONS IN GROUNDWATER
March 12 and 13, 2008

FIGURE 4-2

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2009\OTMSR-GW Data.dwg; Jan – June, Aug 19, 2010–1:47pm kdrilling



Sample ID												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

MW-1

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
25.9	ND	ND	0.007	0.122	ND	ND	ND	ND	ND	ND	ND	ND

MW-2

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

RMW-1,2,3

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

MW-8

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	0.015	0.078	ND	ND	0.014	ND	ND	ND	0.012	ND

MW-7

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
4.35	ND	ND	ND	0.041	ND	ND	ND	ND	ND	ND	ND	ND

MW-6

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
13.5	0.007	ND	0.006	0.034	ND	ND	ND	ND	ND	ND	ND	ND

MW-5

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
26.1	0.014	0.027	0.009	0.049	ND	ND	0.011	ND	ND	ND	ND	ND

AW-3

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	0.014	ND	ND	0.053	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Pb = lead. Sb = antimony. As = arsenic. Ba = barium. Cr = chromium. Cu = copper. Mo = molybdenum. Ni = nickel. Se = selenium. Tl = thallium. V = vanadium. Zn = zinc. ND = not detected at limit indicated on official laboratory report. µg/L = micrograms per liter. mg/L = milligrams per liter. NA = not measured and/or analyzed. All dimensions and locations are approximate.

SCALE (FEET)
0 500

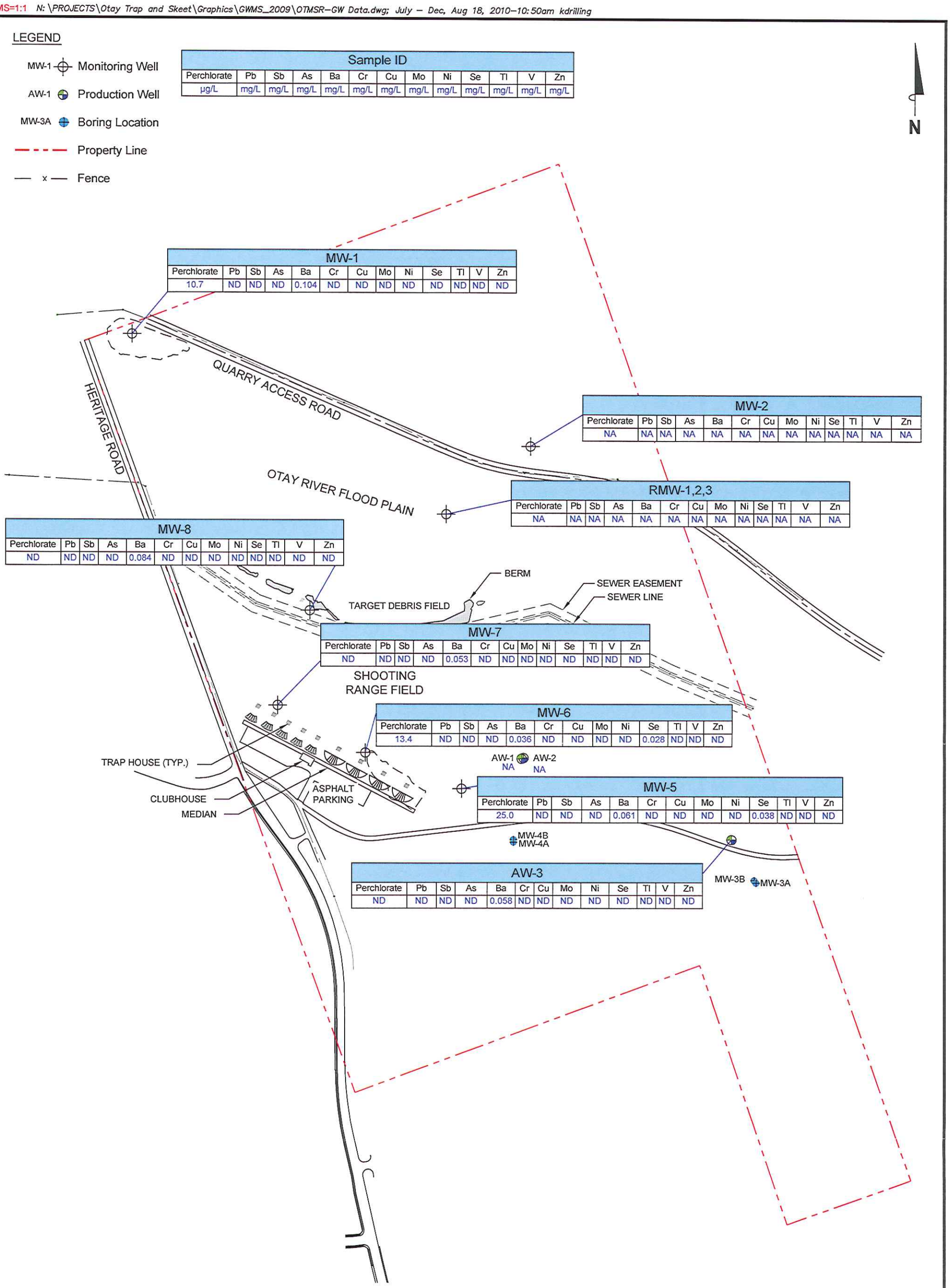
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

PERCHLORATE AND TITLE 22 METAL CONCENTRATIONS IN GROUNDWATER
Second Quarter, 2009

FIGURE 4-1

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2009\OTMSR-GW Data.dwg; July – Dec, Aug 18, 2010-10:50am kdrilling



Sample ID												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

MW-1												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
10.7	ND	ND	ND	0.104	ND	ND	ND	ND	ND	ND	ND	ND

MW-2												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

RMW-1,2,3												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

MW-8												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	ND	0.084	ND	ND	ND	ND	ND	ND	ND	ND

MW-7												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	ND	0.053	ND	ND	ND	ND	ND	ND	ND	ND

MW-6												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
13.4	ND	ND	ND	0.036	ND	ND	ND	ND	0.028	ND	ND	ND

MW-5												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
25.0	ND	ND	ND	0.061	ND	ND	ND	ND	0.038	ND	ND	ND

AW-3												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	ND	0.058	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Pb = lead. Sb = antimony. As = arsenic. Ba = barium. Cr = chromium. Cu = copper. Mo = molybdenum. Ni = nickel. Se = selenium. Tl = thallium. V = vanadium. Zn = zinc. ND = not detected at limit indicated on official laboratory report. µg/L = micrograms per liter. mg/L = milligrams per liter. NA = not measured and/or analyzed. All dimensions and locations are approximate.

SCALE (FEET)
0 500

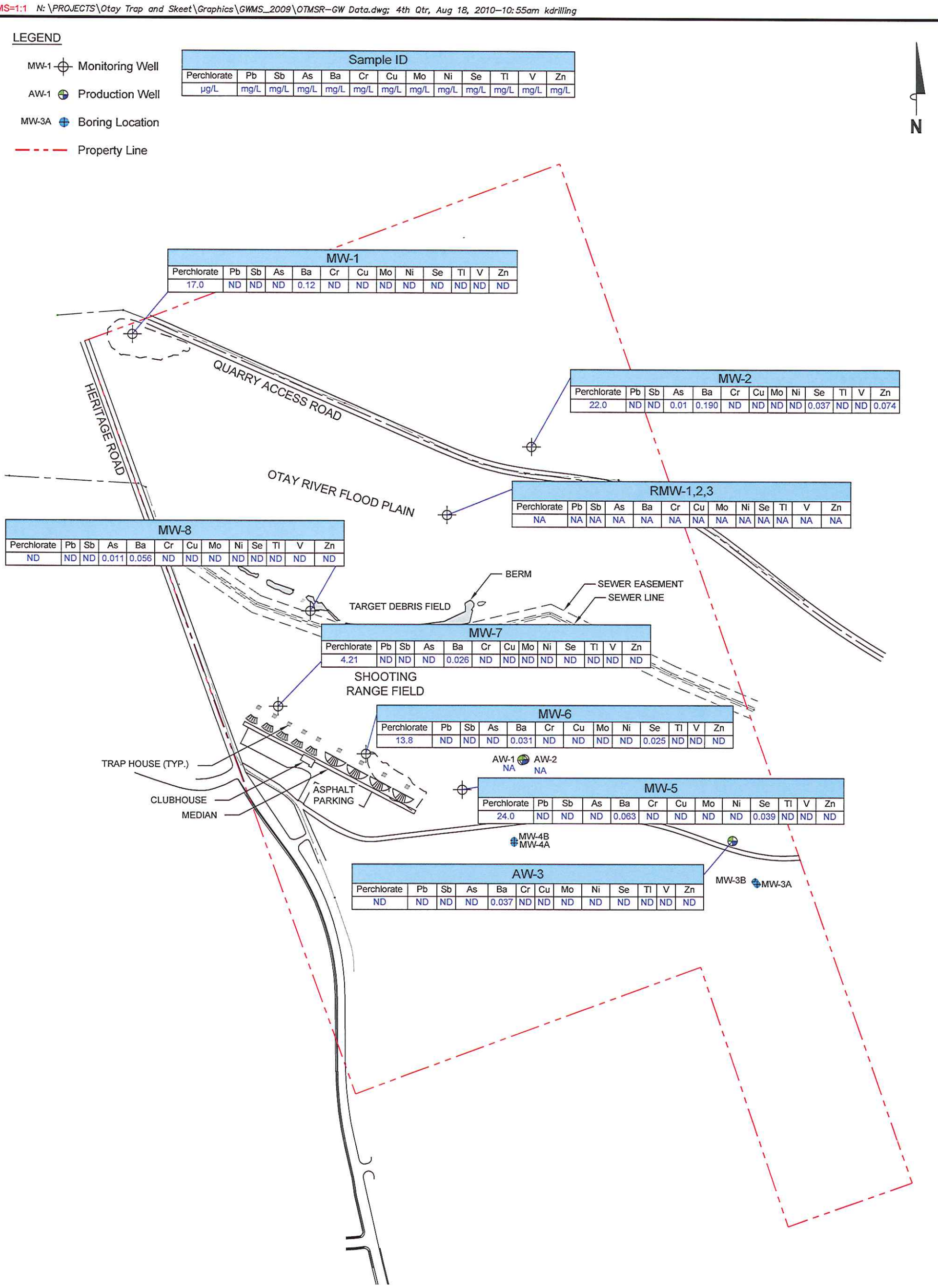
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

PERCHLORATE AND TITLE 22 METAL CONCENTRATIONS IN GROUNDWATER
Third Quarter, 2009

FIGURE 4-2

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2009\OTMSR-GW Data.dwg; 4th Qtr, Aug 18, 2010-10:55am kdrilling



Sample ID												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

MW-1

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
17.0	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND

MW-2

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
22.0	ND	ND	0.01	0.190	ND	ND	ND	ND	0.037	ND	ND	0.074

RMW-1,2,3

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

MW-8

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	0.011	0.056	ND	ND	ND	ND	ND	ND	ND	ND

MW-7

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
4.21	ND	ND	ND	0.026	ND	ND	ND	ND	ND	ND	ND	ND

MW-6

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
13.8	ND	ND	ND	0.031	ND	ND	ND	ND	0.025	ND	ND	ND

MW-5

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
24.0	ND	ND	ND	0.063	ND	ND	ND	ND	0.039	ND	ND	ND

AW-3

Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	ND	0.037	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Pb = lead. Sb = antimony. As = arsenic. Ba = barium. Cr = chromium. Cu = copper. Mo = molybdenum. Ni = nickel. Se = selenium. Tl = thallium. V = vanadium. Zn = zinc. ND = not detected at limit indicated on official laboratory report. µg/L = micrograms per liter. mg/L = milligrams per liter. NA = not measured and/or analyzed. All dimensions and locations are approximate.

SCALE (FEET)
0 500

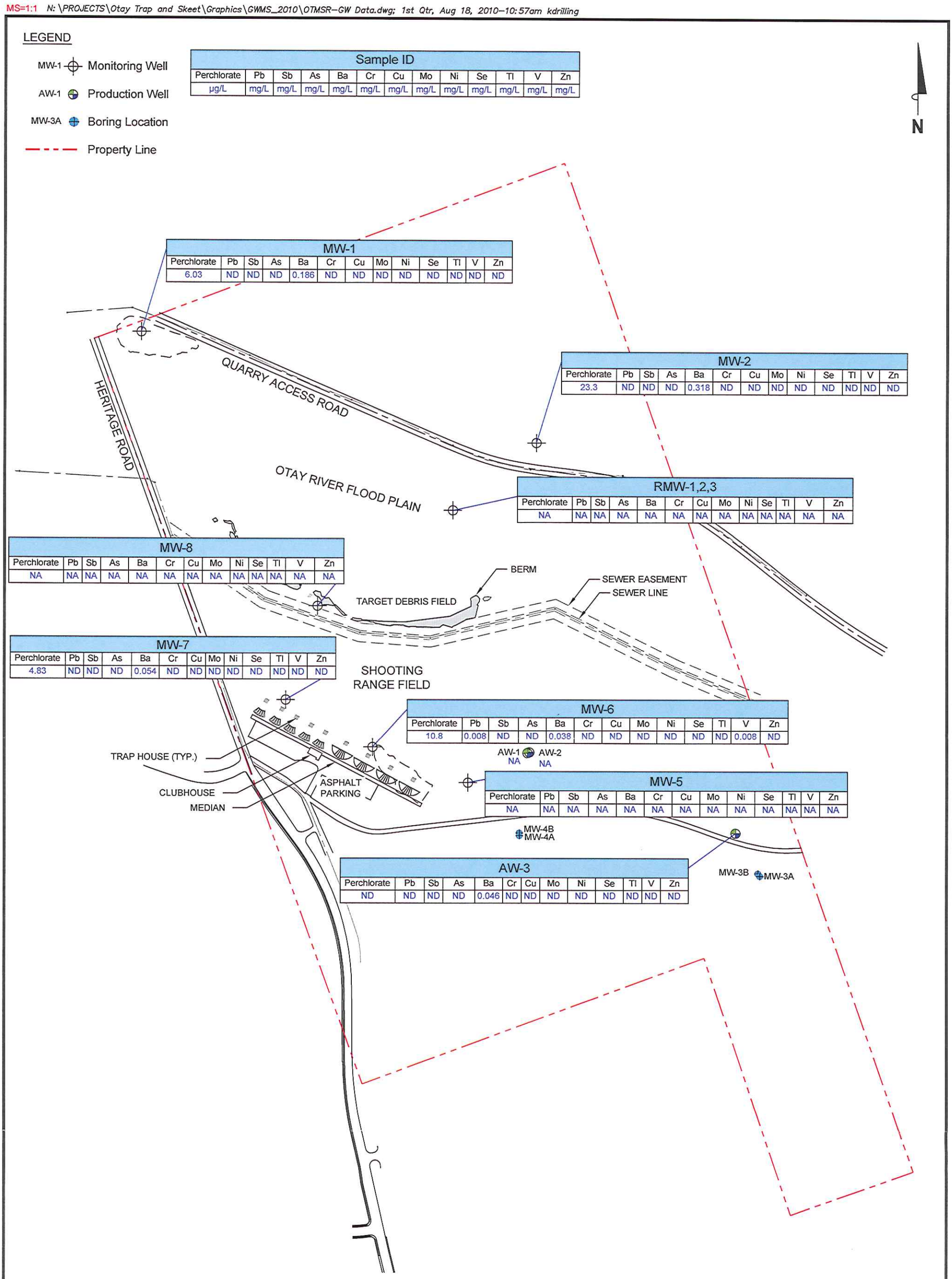
TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

PERCHLORATE AND TITLE 22 METAL CONCENTRATIONS IN GROUNDWATER
Fourth Quarter, 2009

FIGURE 4-3

MS=1:1 N:\PROJECTS\Otay Trap and Skeet\Graphics\GWMS_2010\OTMSR-GW Data.dwg; 1st Qtr, Aug 18, 2010-10:57am kdrilling



Sample ID												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

MW-1												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
6.03	ND	ND	ND	0.186	ND	ND	ND	ND	ND	ND	ND	ND

MW-2												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
23.3	ND	ND	ND	0.318	ND	ND	ND	ND	ND	ND	ND	ND

RMW-1,2,3												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

MW-8												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

MW-7												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
4.83	ND	ND	ND	0.054	ND	ND	ND	ND	ND	ND	ND	ND

MW-6												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
10.8	0.008	ND	ND	0.038	ND	ND	ND	ND	ND	ND	0.008	ND

MW-5												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

AW-3												
Perchlorate	Pb	Sb	As	Ba	Cr	Cu	Mo	Ni	Se	Tl	V	Zn
ND	ND	ND	ND	0.046	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Pb = lead. Sb = antimony. As = arsenic. Ba = barium. Cr = chromium. Cu = copper. Mo = molybdenum. Ni = nickel. Se = selenium. Tl = thallium. V = vanadium. Zn = zinc. ND = not detected at limit indicated on official laboratory report. µg/L = micrograms per liter. mg/L = milligrams per liter. NA = not measured and/or analyzed. All dimensions and locations are approximate.

SCALE (FEET)
0 500

TRC

FACILITY:
Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California

PERCHLORATE AND TITLE 22 METAL CONCENTRATIONS IN GROUNDWATER
First Quarter, 2010

FIGURE 4-4

APPENDIX F

Supplemental Feasibility Study,
Selected Tables and Figures

SUPPLEMENTAL FEASIBILITY STUDY

December 11, 2009

Former Otay Skeet and Trap Shooting Range
5350 Heritage Road
Chula Vista, California
Voluntary Assistance Program No. H39635-001

TRC Project No.
126697.0000.0000

Prepared For:

Flat Rock Land Company, LLC
1903 Wright Place, Suite 220
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By:

Gary J. McCue, PG 5886, CHG 434
Principal Hydrogeologist

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GARY J. McCUE
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Table 1-2

Soil Physical Properties
Former Otay Skeet and Trap Shooting Range

Sample ID	Sample Depth (feet)	Moisture Content (% Weight)	Bulk Density (g/cc)	Grain Density (g/cc)	Total Porosity (% Vb)	Total Organic Carbon (mg/kg)	Saturated Hydraulic Conductivity (cm/s)	Silt and Clay (%)
IMPACTED SOIL[1]								
HAFP-135-0	0 to 0.5	18.6	1.75	2.61	33.1	--	--	46.52
HAFP-152-0	0 to 0.5	19.3	1.69	2.59	34.7	--	--	52.87
HAFP-161-0	0 to 0.5	13.2	1.85	2.58	28.5	--	--	57.46
HAFP-197-0	0 to 0.5	17.0	1.80	2.59	30.5	--	--	56.24
HAFP-197-2.5	2.5 to 3.0	9.0	1.42	2.62	45.7	--	--	58.04
HAFP-265-0	0 to 0.5	14.2	1.73	2.60	33.5	--	--	56.60
Ground Surface Soil, Minimum:		9.0	1.42	2.58	28.5	--	--	46.52
Ground Surface Soil, Mean:		15.2	1.71	2.6	34.3	--	--	54.6
Ground Surface Soil, Maximum:		19.3	1.85	2.62	45.7	--	--	58.04
UN-IMPACTED SURFACE SOIL[1]								
HAFP-164-0	0 to 0.5	16.5	1.79	2.58	30.4	--	--	64.12
HAFP-209-0	0 to 0.5	20.3	1.68	2.58	34.7	--	--	65.94
HAFP-312-0	0 to 0.5	16.0	1.75	2.60	32.6	--	--	61.86
HAFP-418-0	0 to 0.5	17.1	1.76	2.62	32.9	--	--	63.54
HAFP-86-0	0 to 0.5	19.0	1.73	2.59	33.2	--	--	59.60
	Minimum:	16.0	1.68	2.58	30.4	--	--	59.6
	Mean:	17.8	1.7	2.6	32.8	--	--	63.0
	Maximum:	20.3	1.79	2.62	34.7	--	--	65.94

Table 1-2

Soil Physical Properties
Former Otay Skeet and Trap Shooting Range

Sample ID	Sample Depth (feet)	Moisture Content (% Weight)	Bulk Density (g/cc)	Grain Density (g/cc)	Total Porosity (% Vb)	Total Organic Carbon (mg/kg)	Saturated Hydraulic Conductivity (cm/s)	Silt and Clay (%)
UN-IMPACTED DEEPER SOIL[1]								
HAFP-135-2.5	2.5 to 3.0	17.5	1.62	2.63	38.5	--	--	36.42
HAFP-152-2.5	2.5 to 3.0	19.1	1.57	2.61	39.8	--	--	53.88
HAFP-161-2.5	2.5 to 3.0	11.6	1.49	2.61	43.0	--	--	100.0
HAFP-164-2.5	2.5 to 3.0	11.8	1.80	2.59	30.7	--	--	58.71
HAFP-209-2.5	2.5 to 3.0	8.8	1.46	2.62	44.4	--	--	48.12
HAFP-265-2.5	2.5 to 3.0	9.5	1.36	2.63	48.4	--	--	58.19
HAFP-312-2.5	2.5 to 3.0	10.6	1.50	2.63	42.9	--	--	62.76
HAFP-418-2.5	2.5 to 3.0	17.9	1.74	2.63	33.8	--	--	23.33
HAFP-86-2.5	2.5 to 3.0	17.4	1.69	2.59	34.7	--	--	61.17
	Minimum:	8.8	1.36	2.59	30.7	--	--	23.33
	Mean:	13.8	1.58	2.62	39.6	--	--	55.8
	Maximum:	19.1	1.80	2.63	48.4	--	--	100
UN-IMPACTED NATIVE SOIL[1]								
HAFP-138-3	3 to 3.5	--	1.59	2.64	31.4	3,500	2.47E-07	--
HAFP-243-3	3 to 3.5	--	1.53	2.64	37.6	1,150	1.75E-07	--
TF-355-A	3.5 to 4.0	--	--	--	--	--	--	100.0
TF-355-B	3.5 to 4.0	--	--	--	--	--	3.23E-07	--
TF-355-B	3.5 to 4.0	--	--	--	--	--	3.06E-07	--
	Minimum:	--	1.53	2.64	31.4	1150	1.75E-07	100
	Mean:	--	1.56	2.64	34.5	2325	2.63E-07	100
	Maximum:	--	1.59	2.64	37.6	3500	3.23E-07	100

Table 1-2

Soil Physical Properties
Former Otay Skeet and Trap Shooting Range

Sample ID	Sample Depth (feet)	Moisture Content (% Weight)	Bulk Density (g/cc)	Grain Density (g/cc)	Total Porosity (% Vb)	Total Organic Carbon (mg/kg)	Saturated Hydraulic Conductivity (cm/s)	Silt and Clay (%)
STOCKPILE SP-12 WITH VISIBLY IMPACTED SOIL FROM SHOOTING RANGE[2]								
SP-12-9/SP-12-15	--	--	--	--	--	--	--	100.0
SP-12-16	--	--	--	--	--	--	--	100.0
SP-12-24	--	--	--	--	--	--	--	100.0
SP-12-25	--	--	--	--	--	--	--	46.90
SP-12-30	--	--	--	--	--	--	--	100.0
SP-12-27/SP-12-31	--	--	--	--	--	--	--	100.0
	Minimum:	--	--	--	--	--	--	46.90
	Mean:	--	--	--	--	--	--	91.15
	Maximum:	--	--	--	--	--	--	100.0
BORINGS GT-1 THRUGH 4[1]								
GT-1-11	11.5 to 12.0	13.8	1.52	--	--	--	--	35.04
GT-1-21.5	22.0 to 22.5	18.0	1.76	--	--	--	5.95E-07	60.01
GT-1-25	25.5 to 26.0	14.8	1.79	--	--	--	1.09E-06	57.58
GT-2-11	11.5 to 12.0	22.0	1.60	--	--	--	--	38.84
GT-2-15.5	16.0 to 16.5	10.0	1.80	--	--	--	7.80E-07	57.39
GT-2-21.5	22 to 22.5	16.7	1.58	--	--	--	1.12E-06	16.86
GT-2-32	32.5 to 33	11.5	1.84	--	--	--	3.56E-07	43.27
GT-3-5	5.5 to 6	17.9	1.64	--	--	--	7.59E-07	44.36
GT-3-11	11.5 to 12	12.0	1.82	--	--	--	5.95E-07	100.00
GT-3-32	32.5 to 33	26.4	1.45	--	--	--	3.53E-07	27.80
GT-4-15	15.5 to 16	14.6	1.79	--	--	--	9.43E-07	51.82
GT-4-27.5	28 to 28.5	15.3	1.85	--	--	--	4.25E-07	27.94
	Minimum:	10.0	1.45	--	--	--	3.53E-07	16.86
	Mean:	16.1	1.70	--	--	--	7.02E-07	46.74
	Maximum:	26.4	1.85	--	--	--	1.12E-06	100.00

Table 1-2

Soil Physical Properties
Former Otay Skeet and Trap Shooting Range

Sample ID	Sample Depth (feet)	Moisture Content (% Weight)	Bulk Density (g/cc)	Grain Density (g/cc)	Total Porosity (% Vb)	Total Organic Carbon (mg/kg)	Saturated Hydraulic Conductivity (cm/s)	Silt and Clay (%)

Notes:

[1] Samples not sieved prior to analysis.

[2] Samples sieved prior to analysis.

mg/kg = milligrams per kilogram

cm/s = centimeters per second

-- = not analyzed or not applicable

g/cc = grams per cubic centimeter

Vb = bulk volume

Table 2-1

Applicable or Relevant and Appropriate Requirements
Former Otay Skeet and Trap Shooting Range

ARAR Reference Number	Regulation, Standard or Level of Control	Description	Applicable or Relevant and Appropriate	Comments
Chemical-Specific Requirements				
1	RCRA, 40 CFR Part 261, 264 and 268, Hazardous Waste and Land Disposal Restrictions	Definition and identification of waste material as hazardous. Restrictions on the disposal of hazardous waste to land. Includes standards developed for the protection of ground water from RCRA regulated units.	Applicable	Applicable to waste disposal.
2	Title 22 CCR Section 66261, 66264 and 66268, Hazardous Waste and Land Disposal Restrictions	Definition and identification of waste material as hazardous. Restrictions on the disposal of hazardous waste to land. Includes standards developed for the protection of ground water from RCRA regulated units.	Applicable	Applicable to waste disposal.
3	Clean Water Act, Section 304(a), National Water Quality Criteria	Guidance to states for establishing water quality criteria (Basin Plan) for protection of human health and aquatic life.	Relevant and Appropriate	This guidance would be relevant in assessing the risk to the Otay River or any other route of direct human or ecological exposure to impacted water.
4	Porter-Cologne, Basin Plan Standards	Establishes standards for ambient water quality in surface waters and ground water, including Anti-Degradation Policy.	Applicable	These standards are relevant in assessing the risk to the Otay River or any other route of direct human or ecological exposure to impacted water.
5	40 CFR 131.38 Priority Toxic Pollutant Criteria for Inland Surface Waters	Numeric water quality criteria for discharges to California inland surface waters and enclosed bays and estuaries.	Applicable	Applicable if discharge to river. Enforced through NPDES permits.
6	40 CFR Part 141, Federal Maximum Contaminant Levels	Legally enforceable drinking water standards.	Applicable	These standards are directly relevant to a beneficial use basin with potential for current and/or future use as drinking water supply.

Table 2-1

Applicable or Relevant and Appropriate Requirements
Former Otay Skeet and Trap Shooting Range

ARAR Reference Number	Regulation, Standard or Level of Control	Description	Applicable or Relevant and Appropriate	Comments
7	Title 22 CCR 64431, California Maximum Contaminant Levels	Legally enforceable drinking water standards.	Applicable	These standards are directly relevant to a beneficial use basin with potential for current and/or future use as drinking water supply.
8	California Proposition 65, No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels for Chemicals Causing Reproductive Toxicity	Proposition 65 requires notification of the public when the public may be exposed to listed chemicals known to the State of California to cause toxicity. The NSRLs provide "safe harbor" numbers below which public notification is not required.	To Be Considered	If listed toxics are located onsite in circumstances that result in public exposure above certain regulatory thresholds, the notification requirement may be triggered unless a quantitative risk assessment is performed. Based on the agency approved risk assessment conducted at this site and the risk based remediation goals established for the site, Prop 65 requirements are not triggered.

Table 2-1

Applicable or Relevant and Appropriate Requirements
Former Otay Skeet and Trap Shooting Range

ARAR Reference Number	Regulation, Standard or Level of Control	Description	Applicable or Relevant and Appropriate	Comments
9	EPA Region 9 Regional Screening Levels (formerly Preliminary Remediation Goals [PRGs])	Risk-based tools for evaluating and cleaning up contaminated sites. They are being used to streamline and standardize all stages of the risk decision-making process. The risk-based concentrations presented in the Table may be used as screening levels or initial cleanup goals if applicable. Generally a screening level is intended to provide health protection without knowledge of the specific exposure conditions at a site. RSLs may also be used as initial cleanup goals when the exposure assumptions based on site-specific data match up with the default exposure assumptions in the RSL Table.	To Be Considered	These values are relevant as baseline indicators of potential risk during the receptor pathway survey/risk assessment screening in order to determine whether or not additional site-specific, risk-based cleanup criteria are needed in the RI/FS.
10	California Human Health Screening Levels for Soil	Provides thresholds for screening level assessments of whether or not concentrations at a site represent a potential human health risk. These thresholds are intended as a tool to assist in evaluations of sites and is roughly equivalent to the EPA PRGs.	To Be Considered	These values are relevant as baseline indicators of potential risk during the receptor pathway survey/risk assessment screening in order to determine whether or not additional site-specific, risk-based cleanup criteria are needed in the RI/FS.
11	Toxic Substance Control Act Section 403	Provide thresholds for lead in soil and dust that would constitute a lead hazard in residential settings.	To Be Considered	These values are only relevant to the extent that future residential land use (on- or offsite) could be affected.
12	Title 17 CCR Sections 35035 and 35036	Provides thresholds for "lead contaminated soil" and "lead contaminated dust" that qualify as a lead health hazard for residential areas.	To Be Considered	These values are only relevant to the extent that future residential land use (on- or offsite) could be affected.

Table 2-1

Applicable or Relevant and Appropriate Requirements
Former Otay Skeet and Trap Shooting Range

ARAR Reference Number	Regulation, Standard or Level of Control	Description	Applicable or Relevant and Appropriate	Comments
13	California Department of Public Health; Notification Levels for Unregulated Contaminants	Health based advisory to DPH regulated water agencies; required action may consist of monitoring, public notification or may include remedial measures.	To Be Considered	In the absence of other guidance, these thresholds are indicative of approximate levels of potential health based concerns.
14	National Ambient Air Quality Standards (NAAQS), 40 CFR Part 15	Establishes NAAQS for criteria pollutants: particulate matter (PM10), sulfer dioxide, carbon monoxide, nitrogen dioxide, ozone and lead.	Applicable	NAAQS and related rules for PM10 and lead will be applied by San Diego Air Pollution Control District to fugitive dust emissions.
Location-Specific Requirements				
15	Endangered Species Act, 50 CFR Parts 200 and 402	Provides for the protection of endangered or threatened plant and animal species through an evaluation of affected habitats in the site area, as well as consultation with the appropriate government agencies.	Applicable	It appears that endangered and/or threatened species are present in the Otay River flood plain.
16	California Endangered Species Act, California Fish and Game Code Sections 2050 et seq.	Provides for the recognition and protection of rare, threatened and endangered species of plant and animals.	Applicable	It appears that endangered and/or threatened species are present in the Otay River flood plain.
17	Migratory Bird Act, 15 U.S.C. 703 et seq.	Protects certain migratory birds or their nests or eggs.	To Be Considered	URS to determine if applicable, i.e. that the site and river flood plain are valuable habitat for migratory birds
18	National Archaeological and Historic Preservation Act, 36 CFR Part 65	Provides for the protection of any historically significant artifacts that may be unearthed during excavation activities.	Applicable	Historic artifacts must be protected if observed during excavation.

Table 2-1

Applicable or Relevant and Appropriate Requirements
Former Otay Skeet and Trap Shooting Range

ARAR Reference Number	Regulation, Standard or Level of Control	Description	Applicable or Relevant and Appropriate	Comments
19	California Department of Fish and Game Section 1600, Streambed Alteration Program	Regulates all activities that alter or affect a California water body or streambed.	Applicable	Potentially applicable to any work within the Otay River flood plain

Table 2-1

Applicable or Relevant and Appropriate Requirements
Former Otay Skeet and Trap Shooting Range

ARAR Reference Number	Regulation, Standard or Level of Control	Description	Applicable or Relevant and Appropriate	Comments
Action-Specific Requirements				
20	RCRA, Subtitle C	Regulates the treatment, storage and disposal aspects of hazardous waste.	Applicable	
21	Title 22 CCR Division 4.5	Regulates the treatment, storage and disposal aspects of hazardous waste.	Applicable	
22	RCRA, 40 CFR 264	Regulates disposal or decontamination of equipment, structures and soils. "Remediation Wastes" can be managed onsite in a Corrective Action Management Unit (CAMU).	Applicable	Potentially applicable if remediation wastes are to remain onsite.
23	Title 27 CCR Section 20200 et seq.	Regulates discharge into a Waste Management Unit (WMU) of solid wastes that can not be discharged directly or indirectly to Waters of the State.	Applicable	Potentially applicable if remediation wastes are to remain onsite.
24	NPDES, 40 CFR 122	Regulates discharges into waters of the United States.	Applicable	Applicable to both direct (discrete point) and indirect (non-point source) discharges to surface water.
25	Title 23 CCR 2200 et seq.	Regulates discharges into waters of California.	Applicable	Applicable to both direct (discrete point) and indirect (non-point source) discharges to surface and ground water.
26	Pretreatment Standards, 40 CFR 403.5	Establishes pre-discharge treatment standards for discharges into a sanitary sewer system/publicly owned treatment works (POTW).	Applicable	Only applicable if discharge to a sanitary sewer.
27	Clean Water Act Section 401	Requires affirmative certification of various requirements regarding preservation of wetlands.	Applicable	Applicable to work within wetlands, if any.

Table 2-1

Applicable or Relevant and Appropriate Requirements
Former Otay Skeet and Trap Shooting Range

ARAR Reference Number	Regulation, Standard or Level of Control	Description	Applicable or Relevant and Appropriate	Comments
28	Clean Water Act Section 404	Regulates discharge of dredged and fill material into waters of the United States, including wetlands.	Applicable	Applicable to work within wetlands, if any.
29	CEQA, California Statute, Public Resources Code, Sections 21000 et seq.	Requires disclosure to the public and government decision-makers of the environmental effects of a proposed action that a government agency has the discretion to approve or disapprove.	Applicable	Potentially applicable to discretionary approvals at the site.
30	Clean Air Act, SDAPCD Rule 10, New Source Permitting	Requires a permit to construct and operate equipment that may generate or control regulated air emissions.	Applicable	Permitting or other compliance measures may be required to adquately control dust and toxics emissions to air during any excavation, treatment or disposal activities.
31	Title 23 CCR, Chapter 15, Section 2510	Sets standards for waste management requirements for waste treatment, storage, or disposal in landfills, surface impoundments, waste piles and land treatment facilities in order to protect water quality.	Applicable	Applicable to any onsite hazardous waste disposal.
32	OSHA, 29 CFR 1910 and 1090	Establishes standards for worker protection, particularly for workers involved in hazardous waste operations.	Applicable	Regulates worker safety for construction and operation of remedial action.
33	Title 27 CCR Section 20760, Nuisance Control	Provides agency with authority to regulate and eliminate public nuisances.	Applicable	Referenced by County in directive to remove wood debris pile.
34	San Diego County Code Section 68.405 Public Nuisance	Provides County with authority to regulate and eliminate public nuisances.	Applicable	Referenced by County in directive to remove wood debris pile.

Table 2-1

Applicable or Relevant and Appropriate Requirements
Former Otay Skeet and Trap Shooting Range

ARAR Reference Number	Regulation, Standard or Level of Control	Description	Applicable or Relevant and Appropriate	Comments
35	Voluntary Assistance Program (VAP)	Oversight agency provides concurrence or approval for proposed remediation activities initiated voluntarily by a private entity outside of a regulatory requirement or directive. Agencies ensure that proposed remediation activities are consistent with requirements and standards used on similar projects with active agency regulatory (i.e. involuntary) oversight.	Applicable	The technical process used to develop site-specific, risk-based remediation goals developed under VAP is the same as the process used on projects with direct regulatory agency oversight.

Table 2-2

ARAR-Based or To Be Considered Thresholds
Former Otay Skeet and Trap Shooting Range

											Dust				Water										Exposure
Source:	EPA Region 9 RSLs (former PRGs) - Direct Contact Exposure[A]		EPA Region 9 RSLs (former PRGs) - Soil Screening Levels (migration to water)[A]		California Human Health Screening Levels - Direct Contact Exposure[I]		CA Title 17 "Lead Contaminated Soil"[B]		EPA TSCA Section 403[C]		EPA TSCA Section 403[C]	CA Title 17 "Lead Contaminated Dust"[B]	Maximum Concentrations in Soil		EPA Region 9 RSLs (former PRGs)[A]	EPA MCLs[D]	CA MCLs[E]	CA DPH Notification Levels for Unregulated Contaminants[G]	EPA National Aquatic Life Water Quality Criteria - Freshwater[F]		EPA National Aquatic Life Water Quality Criteria - Human Health for consumption of:[F]		Range of Detectable Concentrations in Groundwater		Prop 65 NSRL[H]
Table 1 Reference No.:	ARAR 9		ARAR 9		ARAR 10		ARAR 12		ARAR 11		ARAR 11	ARAR 12			ARAR 9	ARAR 6	ARAR 7	ARAR 13	ARAR 3		ARAR 3				ARAR 8
Type:	Residential Soil	Industrial Soil	Risk Based	MCL Based	Residential Soil	Commercial /Industrial Soil	Children Play Area	All other Areas	Children Play Area	Bare soil yard wide average	Dust	Dust	Soil Maximum	Soil Maximum	Tap Water	Drinking Water	Drinking water	Tap Water	CMC	CCC	Water & Organism	Organism Only	Water Maximum	Water Maximum	Public Exposure
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ppm	ppm	ppm	ppm	ug/ft^2	ug/ft^2	(ug/kg)	(mg/kg)	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	ug/day
Applicability or Relevancy:	To be considered	To be considered	To be considered	To be considered	To be considered	To be considered	Relevant / Appropriate to future use		Relevant / Appropriate to future use		Relevant / Appropriate to future use	Relevant / Appropriate to future use			To be considered	Applicable	Applicable	To Be Considered	Relevant & Appropriate to Otay River	Relevant & Appropriate to Otay River	Relevant & Appropriate to Otay River	Relevant & Appropriate to Otay River			Applicable
Lead (Total Lead)	**400**	**800**	--	**14**	**80**	**320**	**400**	**1000**	**400**	**1200**	40 (floors), 250 (interior window sills)	40 (interior floors), 250 (interior horizontal surfaces), 400 (exterior floor and horizontal surfaces)		64,200	--	**0.015** Regulatory Action Level (replaces MCL)	**--**	--	65 (must be adjusted[G])	2.5 (must be adjusted[G])	--	--	0.035 (filtered)	35 (filtered)	15 oral
Arsenic[J]	**0.39**	**1.6**	**0.0013**	**0.29**	**0.07**	**0.24**	--	--	--	--	--	--	16,000	16	**0.045**	**0.010**	0.05	--	340	150	**0.018**	**0.14**	0.04	40	.06 inhalation; 10 not inhalation
Acenapthene	3,400	33,000	**27**	--	--	--	--	--	--	--	--	--	118,000	118	2,200	--	--	--	--	--	670	990	ND	ND	--
Anthracene	17,000	170,000	450	--	--	--	--	--	--	--	--	--	58,200	58	11,000	--	--	--	--	--	8300	40000	ND	ND	--
Benzo(a)anthracene	**0.15**	**2.1**	**0.014**	--	--	--	--	--	--	--	--	--	891,000	891	0.029	--	--	--	--	--	0.0038	0.018	ND	ND	0.033 oral
Benzo(a)pyrene	**0.015**	**0.21**	**0.0046**	**0.31**	**0.038**	**0.13**	--	--	--	--	--	--	1,390,000	1,390	0.0029	0.0002	0.0002	--	--	--	0.0038	0.018	ND	ND	0.06
Benzo(b)fluoranthene	**0.15**	**2.1**	**0.047**	--	--	--	--	--	--	--	--	--	314,000	314	0.029	--	--	--	--	--	0.0038	0.018	ND	ND	0.096 oral
Benzo(g,h,I)perylene	--	--	--	--	--	--	--	--	--	--	--	--	817,000	817	--	--	--	--	--	--	--	--	ND	ND	--
Benzo(k)fluoranthene	**1.5**	**21**	**0.46**	--	--	--	--	--	--	--	--	--	1,710,000	1,710	0.29	--	--	--	--	--	0.0038	0.018	ND	ND	--
bis(2-Ethyl hexyl)phthalate (DEHP); also shown as di(2-ethyl hexyl)phthalate in some lists	35	120	**1.6**	**2.0**	--	--	--	--	--	--	--	--	3,330	3.3	4.8	0.006	0.004	--	--	--	1.2	2.2	ND	ND	310
Butyl benzyl phthalate	260	910	**0.67**	--	--	--	--	--	--	--	--	--	761	0.76	35	--	--	--	--	--	1500	1900	ND	ND	--
Chrysene	**15**	**210**	**1.4**	--	--	--	--	--	--	--	--	--	1,120,000	1,120	2.9	--	--	--	--	--	0.0038	0.018	ND	ND	0.35 oral
Dibenz(a,h)anthracene	**0.015**	**0.21**	**0.015**	--	--	--	--	--	--	--	--	--	423,000	423	0.0029	--	--	--	--	--	0.0038	0.018	ND	ND	0.2
Fluoranthene	2,300	22,000	**210**	--	--	--	--	--	--	--	--	--	1,120,000	1,120	1,500	--	--	--	--	--	130	140	ND	ND	--
Indeno(1,2,3-c,d)pyrene	**0.15**	**2.1**	**0.16**	--	--	--	--	--	--	--	--	--	681,000	681	0.029	--	--	--	--	--	0.0038	0.018	ND	ND	--
Naphthalene	**3.9**	**20**	**0.00055**	--	--	--	--	--	--	--	--	--	26,600	26.6	0.14	--	--	0.017	--	--	--	--	ND	ND	5.8
Pyrene	1,700	17,000	**150**	--	--	--	--	--	--	--	--	--	1,290,000	1,290	1,100	--	--	--	--	--	830	4000	ND	ND	--
Perchlorate	55	720	--	--	--	--	--	--	--	--	--	--	123	0.123	**26**	--	**0.006**	--	--	--	--	--	0.059	59	--

NOTES:

CMC = Criterion Maximum Concentration
mg/kg = milligrams per kilogram
ppm = parts per million

CCC = Criterion Continuous Concentration
ug/ft^2 = micrograms per square foot of surface area
ug/kg = micrograms per kilogram

ug/m^3 = micrograms per cubic meter
ug/l = micrograms per liter
mg/l = milligrams per liter

bold = maximum concentration exceeds potentially applicable threshold
ND = not detected above laboratory detection or reporting limits

[A] Regional Screening Levels (formerly Preliminary Remediation Goals) published by EPA Region 9, revision date September 2008
[B] Residential Lead Hazard Standards: Definitions of "Lead Contaminated Soil" and "Lead Contaminated Dust" in Title 17 California Code of Regulations, Division 1, Chapter 8, Article 1: Sections 35035 and 35036 - last reviewed September 24, 2008.

[C] Residential Lead Hazard Standard published by United States Environmental Protection Agency (EPA) under Toxic Substance Control Act, Section 403 in 40 CFR 745.65, definitions of lead contaminated soil and dust - last reviewed September 24, 2008.
[D] Legally enforceable Maximum Contaminant Levels (MCLs) for drinking water established by U.S. EPA as published in 40 CFR Part 141; last reviewed for this table online at http://www.epa.gov/ogwdw/contaminants/index.html#mcls on September 24, 2008.
[E] Legally enforceable Maximum Contaminant Levels (MCLs) for drinking water established by California as published in CCR Title 22, Division 4, Chpt 15, Article 4, 64431 and Article 5, 64444; last reviewed for this table online on September 24, 2008
[F] Recommended receiving water quality criteria published by EPA under Section 304(a) of the Clean Water Act (CWA), revised 2006 - last reviewed September 24, 2008. Guidance for states and tribes to protect human health and aquatic life. Values provided must be adjusted for hardness, water effect ratio, and water column conversion factors.
[G] Health based advisory Notification Levels for unregulated contaminants in drinking water published by California Department of Public Health (DPH), revised December 14, 2007. Last reviewed September 24, 2008.
[H] California Proposition 65 Status Report Safe Harbor Levels: No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels for Chemicals Causing Reproductive Toxcity, May 2008 Status Update, published by Office of Environmental Health Hazard Assessment (OEHHA), California Environmental Protection Agency. Last reviewed September 24, 2008.
[I] Screening Levels for Soil in Table 1 of the January 2005 guidance document "Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties" and in Table 3 of the September 2009 guidance document "Revised California Human Health Screening Levels for Lead"
[J] Arsenic was added to the table based on DTSC's request to include arsenic in the health risk assessment, despite evidence that arsenic concentrations appear representative of background conditions. The health risk assessment subsequently determined that arsenic is not a constituent of concern for the site based on health risk.

Table 4-1

Shooting Range
Summary of General Response Actions, Technologies, and Process Options
Former Otay Skeet and Trap Shooting Range

General Response Action	Remedial Technology	Process Option	Description
No Action	• None	• Not applicable	Required for consideration by NCP.
Institutional Controls	• Monitoring	• Groundwater Monitoring	Perform routine sampling of onsite groundwater monitor wells to assess if groundwater has been impacted by the contaminated soils.
		• Soil Sampling	Perform routine monitoring of surface soils at perimeter of the contaminated soil to assess if wind erosion and/or surface water erosion is causing the migration of contaminants.
		• Inspection	Perform routine inspections and observations of site conditions.
	• Access Restrictions	• Deed Restrictions	Work with County Health Department to place a deed restriction to prevent future site development.
		• Site Security	Access restrictions maintained through fencing and patrolling.
Containment	• Capping	• Engineered cover	Cover impacted soil with low-permeability cap to prevent human and ecological contact, reduce potential leaching of PCOCs to groundwater.
	• Consolidation	• Excavate and create onsite containment unit	Excavate and consolidate impacted soils, lead pellets, and target debris into a central location and construct a containment unit subject to AOC, CAMU, or WMU requirements. WMU units require compliance with LDRs and MTRs.

Table 4-1

Shooting Range
Summary of General Response Actions, Technologies, and Process Options
Former Otay Skeet and Trap Shooting Range

General Response Action	Remedial Technology	Process Option	Description
Soil Treatment	• Acid Leaching	• Excavate and leach lead from soil.	Mix soil with acidic leach solution, typically hydrochloric acid, in a tank reactor. Spent acid is treated to precipitate metals. Spent acid is then treated for discharge/disposal.
	• Stabilization	• Excavate and mix slurried soil with reagent to reduce PCOCs solubility.	Use of reagents such as conventional cement, phosphate, carbonates and other compounds to reduce the leachability of lead in soil. PAHs do not require stabilization since they appear to already be in an insoluble form.
Physical Separation	• Size Separation	• Excavate and screen soil	Excavate soil. Dry or wet screening to separate soil into component sizes. Often needed prior to other treatment alternatives, such as Gravity Separation.
	• Gravity Separation	• Excavate and Gravity Separate	Excavate soil. Soil is slurried and then jigs, cyclones and potentially other types of equipment are used to separate heavier lead pellets and fragments from slurried soil.
Disposal	• Offsite Disposal	• Landfill Disposal	Excavate, conduct waste characterization, load, transport and dispose of impacted soils at a solid waste landfill or TSDF. If a soil does not pass the TCLP, prior treatment will be required.

Notes:
NCP = national contingency plan
PCOCs = potential contaminants of concern
LDRs = land disposal restrictions
MTR = miminum technology requirements
TSDF = hazardous waste transfer, treatment, storage and disposal facility
CAMU = corrective action management unit under Title 22 CCR.
WMU = waste management unit under Title 27 CCR.
AOC = area of contamination under the preamble to the NCP.
Unit = either CAMU or WMU
CCR = California code of regulations

Table 4-1

Shooting Range
Summary of General Response Actions, Technologies, and Process Options
Former Otay Skeet and Trap Shooting Range

General Response Action	Remedial Technology	Process Option	Description

TCLP = Toxicity Characteristic Leaching Procedure
PAHs = polynuclear aromatic hydrocarbons

Table 4-2

Shooting Range
Identification, Screening and Evaluation of Remedial Alternatives
Former Otay Skeet and Trap Shooting Range

	General Response action	Evaluation Parameter Assessment			Overall Feasibility	Comment
		Effectiveness	Implementability	Cost		
1	No Action	Not Effective	Low	None	Not Feasible	Eliminated beause this approach will not achieve the RAOs and was only evaluated for NCP compliance.
2	Institutional Controls	Not Effective	Low	Low	Not Feasible	As a standalone action, eliminated because this approach will not achieve the RAOs.
3	Containment Using Capping	Not Effective	Not Implementable	Moderate to High	Not Feasible	As a standalone action, eliminated due to low effectiveness and implementability.
4	Containment Using Consolidation	Not Effective	Not Implementable	High	Not Feasible	As a standalone action, eliminated because it is not effective or implementable.
5	Containment Using Consolidation and Capping Using the Area of Contamination Approach	High	High	Low to Moderate	High	Retained for further evaluation due to its potential effectiveness to achieve the RAOs and high overall feasiblity.
6	Containment Using Consolidation in a Corrective Action Management Unit or Waste Management Unit	High	Moderate to High	Moderate	Moderate to High	Retained for further evaluation due to its potential effectiveness to achieve the RAOs.
7	Soil Treatment Using Acid Leaching	Not Effective	Low	High	Not Feasible	Eliminated because the technology is not anticipated to be effective for lead shot and high clay content soils.

Table 4-2

Shooting Range
Identification, Screening and Evaluation of Remedial Alternatives
Former Otay Skeet and Trap Shooting Range

	General Response action	Evaluation Parameter Assessment			Overall Feasibility	Comment
		Effectiveness	Implementability	Cost		
8	Soil Treatment Using Stabilization	Not Effective	Low	Moderate to High	Not Feasible	As a standalone action, eliminated due to its low effectiveness at achieving the RAOs.
9	Lead Pellet Recovery Using Dry Screening	Not Effective	Low	High	Not Feasible	Eliminated because the technology is not effective at achieving the RAOs; difficult and time consuming.
10	Physical Separation of Lead Pellet Using Wet Screening and Gravity Separation	Not Effective	Low to Moderate	High	Not Feasible	As a standalone action, eliminated due to its low effectiveness at achieving the RAOs.
11	Disposal	High	Moderate	High	Moderate	Retained for further evaluation due to its potential effectiveness to achieve the RAOs.
12	Soil Treatment Combined with Disposal Using Onsite Stabilization	Low to Moderate	Low to Moderate	High	Low to Moderate	Retained for further evaluation due to its potential effectiveness to achieve the RAOs.
13	Physical Separation Combined with Disposal Using Wet Screening and Gravity Separation	Low to Moderate	Low	High	Low	Retained for further evaluation due to its potential effectiveness to achieve the RAOs.

Notes:

RAOs = remedial action objectives.

NCP = national contingency plan.

Table 4-3

Wood Debris Pile
Summary of Potential General Response Actions, Technologies, and Process Options
Former Otay Skeet and Trap Shooting Range

General Response Action	Remedial Technology	Process Option	Description
No Action	• None	• Not applicable	Required for consideration by NCP.
Institutional Controls	• Monitoring	• Groundwater Monitoring	Perform routine sampling of the one well in the Wood Debris pile to assess if groundwater has been impacted by the treated wood.
		• Inspection	Perform routine inspections and observations of site conditions.
	• Access Restrictions	• Deed Restrictions	Work with County Health Department to place a deed restriction to prevent future site development.
		• Site Security	Access restrictions maintained through fencing and patrolling.
Physical Separation	• Type Separation	• Coarse Separation. Excavate and separate wood by hand and with excavators	Excavate wood and separate creosote treated wood from untreated wood.
		• Detailed Separation. Excavate and separate wood by hand and with excavators	Excavate wood and separate wood into creosote treated wood, untreated wood suitable for recycling, and untreated wood not suitable for recycling.
Disposal	• Landfill Disposal	• Excavate and Dispose	Wood is excavated, loaded and transported to a receiving facility.
	• Recycle	• Excavate, separate, and recycle	Wood is excavated, separated into wood suitable for recycling and wood that is not suitable. The wood is then loaded and recycled.

Notes:
NCP = national contingency plan

Table 4-4

Wood Debris Pile
Identification, Screening and Evaluation of Remedial Alternatives
Former Otay Skeet and Trap Shooting Range

	General Response Action	Evaluation Parameter Assessment			Overall Feasibility	Comment
		Effectiveness	Implementability	Cost		
1	No Action	Not Effective	High	Low to High	Not Effective	Eliminated because this approach will not comply with prior County orders and directives to remove the pile. Evaluated for NCP compliance only.
2	Institutional Controls	Not Effective	Low	Moderate to High	Not Effective	Eliminated because this approach will not comply with prior County orders and directives to remove the pile.
3	Excavation and Offsite Disposal	High	High	High	Moderate to High	Retained for further evaluation due to its potential effectiveness in complying with prior County orders and directives to remove the pile.
4	Excavation, Coarse Separation, and Offsite Disposal	High	High	Moderate	High	Retained for further evaluation due to its potential effectiveness in complying with prior County orders and directives to remove the pile.
5	Excavation, Detailed Separation, and Offsite Disposal	High	Low	High	Low to Moderate	Eliminated from further consideration due to low implementability and high cost.

Notes:

NCP = national contingency plan.

Table 5-1

Shooting Range
Summary of Remediation Volumes
Former Otay Trap and Skeet Shooting Range

Alternative	Percent RCRA Waste Pre-Treatment	Units	Treatment		Retention / Disposal					Totals	
			Stabilization	Wet Sieve / Gravity Separate	Retention On-Site in CAMU or WMU	Retention On-Site as Non-Hazardous Waste	Disposal as Non-Hazardous Waste	Disposal as Non-RCRA Waste	Disposal as RCRA Waste	Total Soil Disposed Offsite	Total Soil Treated
Alternative 1 On-Site Containment Using an AOC Engineered Unit or CAMU	N/A	Cubic Yards	0	0	65,000	0	0	0	0	0	0
Alternative 2 Offsite Disposal of All Soil with No Treatment. Range Showing 65 Percent RCRA Waste to 100 Percent RCRA Waste	65%	Cubic Yards	0	0		0	0	22,750	42,250	65,000	0
		Tons	0	0		0	0	31,850	59,150	91,000	0
	100%	Cubic Yards	0	0		0	0	0	65,000	65,000	0
		Tons	0	0		0	0	0	91,000	91,000	0
Alternative 3 On-Site Stabilization and Offsite Disposal of All Soil Range Showing 65 Percent RCRA Waste to 100 Percent RCRA Waste	65%	Cubic Yards	42,250	0		0		69,225	0	69,225	42,250
		Tons	59,150	0		0	0	96,915	0	96,915	59,150
	100%	Cubic Yards	65,000	0		0	0	71,500	0	71,500	65,000
		Tons	91,000	0		0	0	100,100	0	100,100	91,000

Table 5-1

Shooting Range
Summary of Remediation Volumes
Former Otay Trap and Skeet Shooting Range

Alternative 4 Wet Sieve / Gravity Separate to Remove Lead Pellets, Onsite Retention and Offsite Disposal	N/A	Cubic Yards	0	65,000		28,300	5,900	28,400	2,400	36,700	65,000

Notes:
RCRA = Resource Conservation and Recovery Act
CAMU = Corrective Action Management Unit
AOC = area of contamination
N/A = not applicable

Table 5-2

Shooting Range
Remediation Alternative Costs
Former Otay Trap and Skeet Shooting Range

Description	Units	Unit Rate	Alternative 1 On-Site Containment Range Showing AOC Engineered Unit without Liner to CAMU with Liner				Alternative 2 Offsite Disposal of All Soil with No Treatment Range Showing 65 Percent RCRA Waste to 100 Percent RCRA Waste				Alternative 3 On-Site Stabilization and Offsite Disposal of All Soil Range Showing 65 Percent RCRA Waste to 100 Percent RCRA Waste				Approach 4 Wet Sieve / Gravity Separate to Remove Lead Pellets, Onsite Retention and Offsite Disposal	
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Plans (Sampling and Analysis, QA/QC, Dust Control, Storm water, H&S, Remedial Action, etc.)	Lump Sum	$40,000	1	$40,000	1	$40,000	1	$40,000	1	$40,000	1	$40,000	1	$40,000	1	$40,000
Permits / Approvals, Including Agency Negotiation	Lump Sum	$50,000	1.5	$75,000	2	$100,000	1	$50,000	1	$50,000	1.5	$75,000	1.5	$75,000	1.5	$75,000
Public Participation Planning and Meeting	Lump Sum	$6,000	1	$6,000	1	$6,000	1	$6,000	1	$6,000	1	$6,000	1	$6,000	1	$6,000
Pilot Test Workplan	Lump Sum	$6,000	0	$0	0	$0	0	$0	0	$0	1	$6,000	1	$6,000	1	$6,000
Pilot Test for Fixation	Lump Sum	$100,000	0	$0	0	$0	0	$0	0	$0	1	$100,000	1	$100,000	0	$0
Pilot Test Report	Lump Sum	$8,200	0	$0	0	$0	0	$0	0	$0	1	$8,200	1	$8,200	1	$8,200
Treatment / Remediation Documentation Report	Lump Sum	$10,000	3	$30,000	3	$30,000	1	$10,000	1	$10,000	2	$20,000	2	$20,000	3	$30,000
Permitting Soil Washing TTU	Lump Sum	$22,000	0	$0	0	$0	0	$0	0	$0	1	$22,000	1	$22,000	1	$22,000
Meetings, Communication, Regulatory Agency Interaction	Month	$4,000	9	$36,000	9	$36,000	9	$36,000	9	$36,000	9	$36,000	9	$36,000	12	$48,000
Project Management During Remediation	Day	$440	150	$66,000	150	$66,000	101	$44,440	147	$64,680	115	$50,600	168	$73,920	190	$83,600
Field Oversight	Day	$1,300	150	$195,000	150	$195,000	101	$131,300	147	$191,100	115	$149,500	168	$218,400	190	$247,000
Preparation of Site for Remediation Activities (ingress and egress including installing new gate(s), surface preparation including paving, etc.)	Lump Sum	$32,700	1	$32,700	1	$32,700	1	$32,700	1	$32,700	2	$65,400	2	$65,400	2	$65,400
Clear and Grub the Site	Acre	$1,600	32	$51,200	32	$51,200	32	$51,200	32	$51,200	32	$51,200	32	$51,200	32	$51,200
Storm water Management During Remediation Activities and Post Remediation Activities for 1 Year Following Final Grading	Lump Sum	$40,000	1	$40,000	1	$40,000	1.00	$40,000	1.00	$40,000	1.00	$40,000	1.00	$40,000	1.00	$40,000
Remove surficail impact, lead pellets and target debris from RA2, Target Debris Field and Otay River Flood Plain	Acre	$58,080	4.00	$232,320	4.00	$232,320	4.00	$232,320	4.00	$232,320	4.00	$232,320	4.00	$232,320	4.00	$232,320
Excavate, stockpile, confirmation sampling, loading and offsite disposal of White Material	Lump Sum	$300,000	1	$300,000	1	$300,000	1	$300,000	1	$300,000	1	$300,000	1	$300,000	1	$300,000
Excavation, Stockpile Soil, and Confirmation Sampling	Cubic Yard	$4	65,000	$260,000	65,000	$260,000	65,000	$260,000	65,000	$260,000	65,000	$260,000	65,000	$260,000	65,000	$260,000
Construct CAMU with Liner	Lump Sum	$2,320,000	0	$0	1	$2,320,000	0	$0	0	$0	0	$0	0	$0	0	$0
Construct AOC Engineered Unit without Liner	Lump Sum	$1,540,000	1	$1,540,000	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0

Table 5-2

Shooting Range
Remediation Alternative Costs
Former Otay Trap and Skeet Shooting Range

Description	Units	Unit Rate	Alternative 1 On-Site Containment Range Showing AOC Engineered Unit without Liner to CAMU with Liner				Alternative 2 Offsite Disposal of All Soil with No Treatment Range Showing 65 Percent RCRA Waste to 100 Percent RCRA Waste				Alternative 3 On-Site Stabilization and Offsite Disposal of All Soil Range Showing 65 Percent RCRA Waste to 100 Percent RCRA Waste				Approach 4 Wet Sieve / Gravity Separate to Remove Lead Pellets, Onsite Retention and Offsite Disposal	
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Place Soils into Containment Unit	Cubic Yard	$4	65,000	$260,000	65,000	$260,000	0	$0	0	$0	0	$0	0	$0	0	$0
Mobilization for Wet Sieve / Wet Separate, Pilot Testing, Water Hookup, Pad Construction	Lump Sum	$1,128,000	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	1	$1,128,000
Mobilization for Fixation, Treatability Testing, Water Hookup	Lump Sum	$24,000	0	$0	0	$0	0	$0	0	$0	1	$24,000	1	$24,000	0	$0
Load, Wet Sieve / Wet Separate Lead Pellets, Stockpile	Ton	$64.32	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	91,000	$5,853,120
Load, Fixate, Stockpile	Ton	$41	0	$0	0	$0	0	$0	0	$0	59,150	$2,425,150	91,000	$3,731,000	0	$0
Second Treatment - Load, Fixate, Stockpile	Ton	$41	0	$0	0	$0	0	$0	0	$0	5,915	$242,515	9,100	$373,100	0	$0
Load, Transport, Compact Onsite	Cubic Yard	$4	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	39,620	$138,670
Load, Transport, Dispose at Class III Landfill in San Diego County	Ton	$44.80	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	8,260	$370,048
Load, Transport, Dispose as Non-RCRA Waste	Ton	$97	0	$0	0	$0	31,850	$3,083,080	0	$0	96,915	$9,381,372	100,100	$9,689,680	39,760	$3,848,768
Load, Transport, Dispose as RCRA Waste, Small Volume	Ton	$146	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	3,360	$491,568
Load, Transport, Dispose as RCRA Waste, Large Volume	Ton	$141	0	$0	0	$0	59,150	$8,328,320	91,000	$12,812,800	0	$0	0	$0	0	$0
Transportation Permit Fees	Truck Load	$44	0	$0	0	$0	3,820	$168,080	3,820	$168,080	4,070	$179,080	4,210	$185,240	2,160	$95,040
Re-grade Site Post Excavation / Remediation	Acre	$3,500	32.00	$112,000	32	$112,000	32.00	$112,000	32.00	$112,000	32.00	$112,000	32.00	$112,000	32.00	$112,000
Post Excavation and Seeding Monitoring	Acre - Year	$1,000	32.00	$32,000	32	$32,000	32.00	$32,000	32.00	$32,000	32.00	$32,000	32.00	$32,000	32.00	$32,000
Total Capital Costs[1]:				**$3,310,000**		**$4,110,000**		**$12,960,000**	**to**	**$14,440,000**		**$13,860,000**	**to**	**$15,700,000**		**$13,580,000**
Post CAMU with Liner: Construction Monitoring and Maintenance (Net Present Value Assuming 3% Rate)	Year	$20,000		0	30	392009	0	$0	0	$0	0	$0	0	$0	0	$0
Post AOC Engineered Unit without Liner: Construction Monitoring and Maintenance (Net Present Value Assuming 3% Rate)	Year	$17,000	30	333208		0										
Total Net Present Value Costs:				**$3,643,208**		**$4,502,009**		**$12,960,000**	**to**	**$14,440,000**		**$13,860,000**	**to**	**$15,700,000**		**$13,580,000**

Notes:
RCRA = Resource Conservation and Recovery Act
1 Values rounded to nearest $10,000
CAMU = Corrective Action Management Unit
AOC = area of contamination

Table 5-3

Wood Debris Pile
Remediation Alternative Costs
Former Otay Trap and Skeet Shooting Range

Description	Units	Unit Rate	Wood Debris Pile Alternative 1 Excavation and Offsite Disposal		Wood Debris Pile Approach 2 Excavation, Coarse Separation, and Offsite Disposal	
			Quantity	Cost	Quantity	Cost
Plans (Sampling and Analysis, QA/QC, Dust Control, Storm water, H&S, Remedial Action, etc.)	Lump Sum	$8,000	1.0	$8,000	1.0	$8,000
Permits / Approvals, Including Agency Negotiation	Lump Sum	$10,000	1.0	$10,000	1.0	$10,000
Public Participation Planning and Meeting	Lump Sum	$3,000	1.0	$3,000	1.0	$3,000
Remediation Documentation Report	Lump Sum	$5,000	1.0	$5,000	1.0	$5,000
Meetings, Communication, Regulatory Agency Interaction	Month	$4,000	0.5	$2,000	0.5	$2,000
Project Management During Remediation	Day	$440	25.0	$11,000	25.0	$11,000
Field Oversight	Day	$1,300	25	$32,500	25.0	$32,500

Table 5-3

Wood Debris Pile
Remediation Alternative Costs
Former Otay Trap and Skeet Shooting Range

Description	Units	Unit Rate	Wood Debris Pile Alternative 1 Excavation and Offsite Disposal		Wood Debris Pile Approach 2 Excavation, Coarse Separation, and Offsite Disposal	
			Quantity	Cost	Quantity	Cost
Preparation of Site for Remediation Activities (ingress and egress including removing fencing, surface preparation, etc.)	Lump Sum	$4,000	1.0	$4,000	2.0	$8,000
Storm water Management During Remediation Activities and Post Remediation Activities	Lump Sum	$3,000	1.0	$3,000	1.0	$3,000
Excavate, Load, Transport, Dispose at Local Landfill as "green waste" or "alternative daily cover"	Ton	$43	0.0	$0	3,420	$148,302
Load, Transport, Dispose as Waste	Ton	$71	3600	$255,108	180	$12,755
Segragation	ton	$2	0.0	$0	3,600	$7,200
Profiling	Sample	$350	0.0	$0	15.0	$5,250
Total Capital Costs[1]:				**$330,000**		**$260,000**