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Alameda County
Environmental Health

February 25, 2008

Ms Donna Drogos
Alameda County Environmental Health
1131 Harbor Parkway, Suite 250
Oakland, CA 94502-6577

Subject: **Fourth Quarter 2007 Groundwater Monitoring Report**
Stop 'N' Save
20570 Stanton Avenue, Castro Valley, Alameda County, California
Apex Project No. STS08.001
RO0000179

Ms. Drogos:

Enclosed please find a copy of the February 19, 2008, Fourth Quarter 2007 Monitoring Report for the above referenced site, prepared by our consultant, Apex Envirotech, Inc.

I declare, under penalty and perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Sincerely,



Sean Kapoor



3446 N. Golden State Blvd., Suite C • Turlock, CA 95382
Phone: 209.667.6874 • Fax: 209.667.9668

February 19, 2008

Ms. Donna Drogos
Alameda County Health Care Services Agency
1131 Harbor Parkway, Suite 250
Oakland, California 94502-6577

Subject: **Fourth Quarter 2007 Groundwater Monitoring Report**
Stop 'N' Save
20570 Stanton Avenue, Castro Valley, Alameda County, California
Apex Project No. STS08.001

Dear Ms. Drogos:

Apex Envirotech, Inc. (Apex) has been authorized by Stop 'N' Save (SNS) to provide this report documenting the fourth quarter groundwater monitoring event conducted December 20, 2007. Groundwater monitoring results are provided in the attached figures and tables. Apex standard operating procedures, field data, and analytical results are provided as appendices.

This report is based, in part, on information obtained by Apex from SNS and Enviro Soil Tech Consultants (ESTC), and is subject to modification as newly acquired information may warrant.

SITE DESCRIPTION

The site is located at 20570 Stanton Avenue, Castro Valley, Alameda County, California (Figure 1). The site is situated in a commercial and residential area and is currently being used as a convenience store.

BACKGROUND

February 24, 2000 – Two 10,000-gallon gasoline underground storage tanks (USTs) were removed by Johnson Tank Testing and Maintenance. Results are detailed in ESTC's report titled *Soil Sampling Beneath Removed USTs*, dated March 8, 2000.

May 18, 2000 – ETSC submitted their *Proposed Work Plan for Preliminary Site Assessment*.

July 25 and 26, 2000 – ESTC over-excavated and treated by bio-remediation 150 cubic yards of contaminated soil in the vicinity of former UST areas. Results of the bio-remediation activities are detailed in ESTC's *Interim Corrective Action*, dated August 17, 2000. Results of the sampling and disposal activities are detailed in ETCS's *Soil Sampling, Treatment and Disposal*

of Contaminated Stockpiled Soil, dated August 21, 2000.

September 2000 – ESTC performed a preliminary soil and groundwater assessment of the subject property. Results are detailed in their report *Preliminary Soil and Groundwater Assessment*, dated October 13, 2000.

October 2000 – ESTC installed three groundwater monitoring wells at the subject site (STMW-1 through STMW-3).

September 2007 – Apex was contracted by SNS to bring the site into compliance with all regulatory agencies.

GENERAL SITE INFORMATION

| | |
|----------------------------------|---|
| Site name: | Stop 'N' Save |
| Site address: | 20570 Stanton Avenue, Castro Valley, California |
| Current property owner: | Stop 'N' Save, Inc. |
| Current site use: | Active gasoline station |
| Current phase of project: | Groundwater monitoring |
| Tanks at site: | 3 USTs |
| Number of wells: | 3 groundwater monitoring wells |

GROUNDWATER MONITORING SUMMARY

| | |
|-------------------------------------|---------------------------------------|
| Gauging and sampling date: | December 20, 2007 |
| Wells gauged and sampled: | SMW-1, SMW-2, and SMW-3 |
| Wells gauged only: | None |
| Groundwater flow direction: | East |
| Groundwater gradient: | 0.056 ft/ft |
| Floating liquid hydrocarbon: | None |
| Laboratory: | Argon Laboratories, Ceres, California |

ANALYSES PERFORMED:

| Analysis | Abbreviation | Designation | USEPA Method No. |
|--|--------------|----------------------------|------------------|
| Total Petroleum Hydrocarbons as Gasoline | TPHg | Gas Range Hydrocarbons | 8260B |
| Benzene | BTEX | Aromatic Volatile Organics | |
| Toluene | | | |
| Ethylbenzene | | | |
| Xylenes (Total) | | | |
| Tertiary Butyl Alcohol | TBA | Five Fuel Oxygenates | |
| Methyl Tertiary Butyl Ether | MTBE | | |
| Di-isopropyl Ether | DIPE | | |
| Ethyl Tertiary Butyl Ether | ETBE | | |
| Tertiary Amyl Methyl Ether | TAME | | |
| 1,2-Dichloroethane | 1,2-DCA | Lead Scavengers | |
| Ethylene dibromide | EDB | | |

Analytical data for water samples are summarized in Table 3. Copies of the laboratory analytical report and chain-of-custody (COC) form are included in Appendix C.

MODIFICATIONS FROM STANDARD MONITORING PROGRAM:

None

CONCLUSIONS

According to analytical lab data TPHg, benzene, and MTBE concentrations are centered around MW-1. The presence of TBA and the declining trends of contaminant concentrations suggest natural attenuation is occurring in the shallow zone aquifer at the site.

Groundwater levels have increased an average of 0.28 feet since the last sampling event.

RECOMMENDATIONS

Apex will continue quarterly groundwater monitoring. The next quarterly sampling event is scheduled for March 2008.

APPENDICES:

- Figure 1: Site Vicinity Map
- Figure 2: Site Plan Map
- Figure 3: Groundwater Contour Map: December 20, 2007
- Figure 4: TPHg in Groundwater Isoconcentration Map: December 20, 2007
- Figure 5: Benzene in Groundwater Isoconcentration Map: December 20, 2007
- Figure 6: MTBE in Groundwater Isoconcentration Map: December 20, 2007

- Table 1: Well Construction Details
- Table 2: Groundwater Elevation Data
- Table 3: Groundwater Analytical Data

- Appendix A: Apex Standard Operating Procedures
- Appendix B: Field Data Sheets
- Appendix C: Laboratory Analytical Reports and COC Form

REPORT DISTRIBUTION

Apex submitted a copy of this Report to:

Regulatory Oversight: Ms. Donna Drogos
Alameda County Health Care Services Agency
1131 Harbor Parkway, Suite 250
Oakland, California 94502-6577

Mr. Chuck Headless
San Francisco Bay RWQCB-Geotracker only
1515 Clay Street, Suite 1400
Oakland, CA 94612

Responsible Party: Mr. Sean Kapoor

REMARKS/SIGNATURES

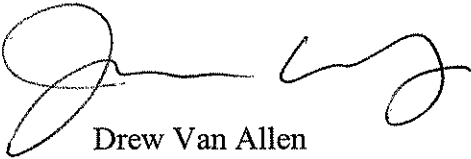
The information contained within this report reflects our professional opinions and was developed in accordance with currently available information, and accepted hydrogeologic and engineering practices.

The work described above was performed under the direct supervision of the professional geologists, registered with the State of California, whose signatures appear below.


We appreciate the opportunity to provide SNS geologic, engineering and environmental consulting services, and trust this report meets your needs. If you have any questions or comments, please call us at (209) 667-6874.

Sincerely,

APEX ENVIROTECH, INC.

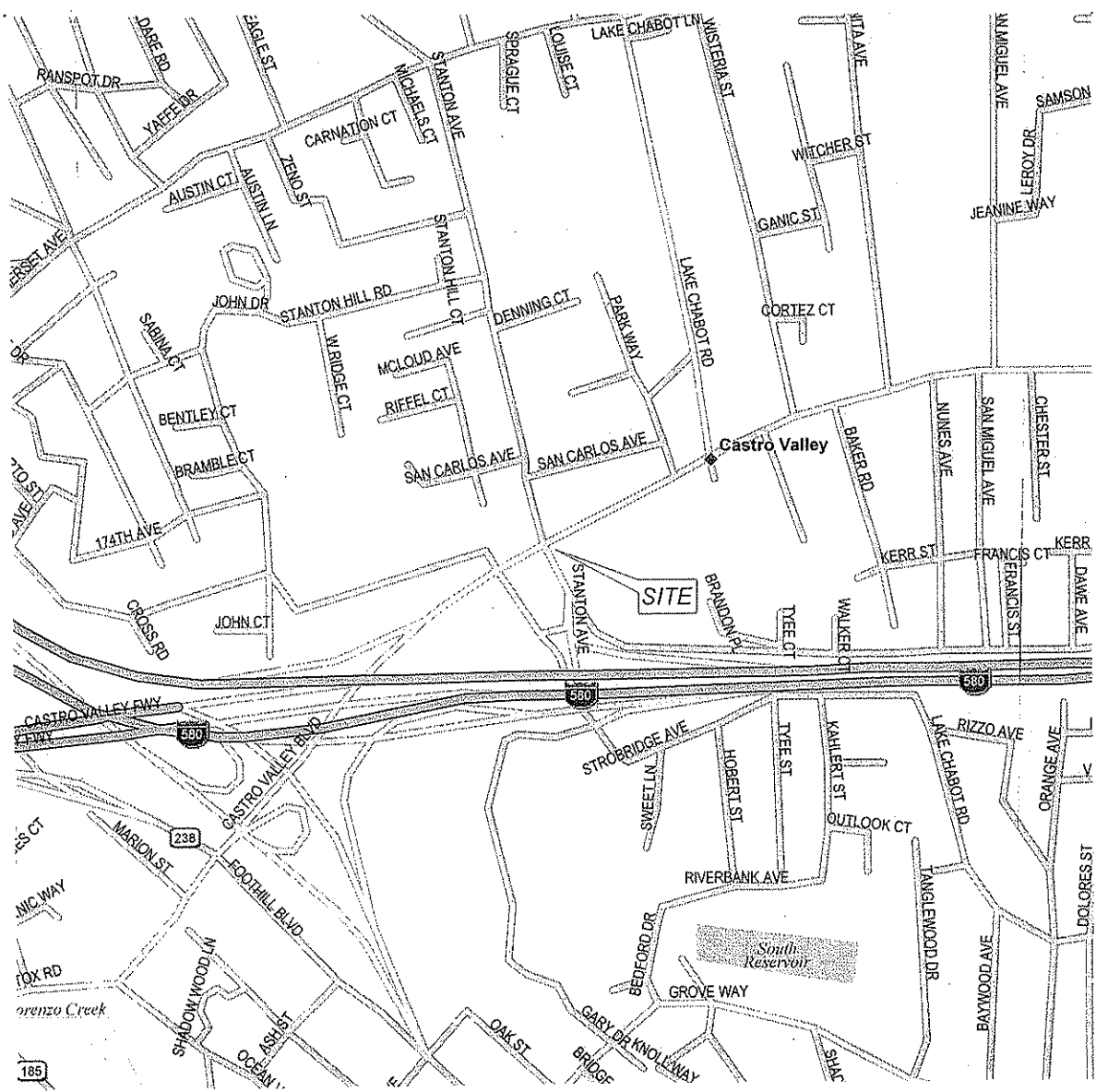
 For:

Drew Van Allen
Senior Project Manager

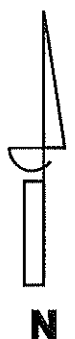

Michael S. Sgourakis, P.G.
Senior Geologist
PG No. 7194



FIGURES



Approximate Scale
1 inch = 1,000 feet



| | |
|-----------|-----------|
| DRAWN BY: | D. Alston |
| DATE: | 10/29/07 |
| REVISIONS | |
| | |
| | |
| | |

SITE VICINITY MAP

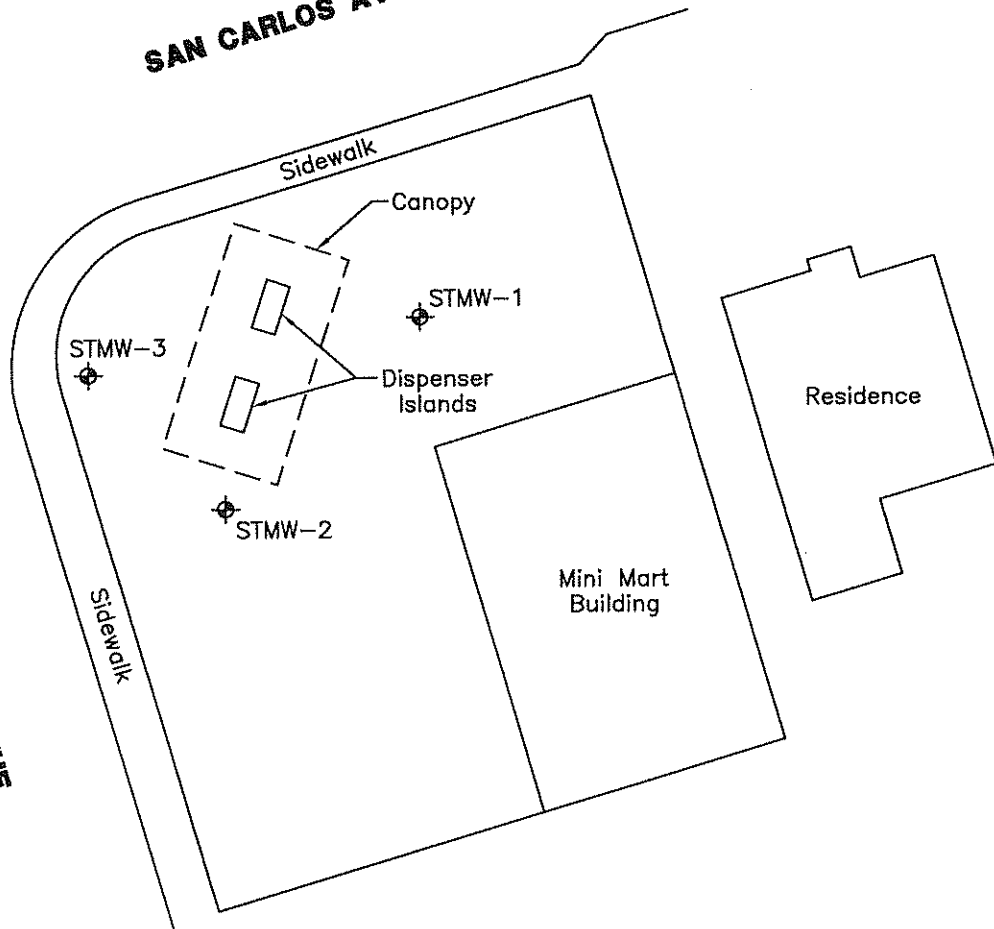
Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California

FIGURE
1

PROJECT NUMBER:
STS08.001

SAN CARLOS AVENUE

STANTON AVENUE



LEGEND

⊕ Monitoring Well Location



Approximate Scale
1 inch = 30 feet



DRAWN BY: D. Alston
DATE: 10/26/07

REVISIONS

SITE PLAN MAP

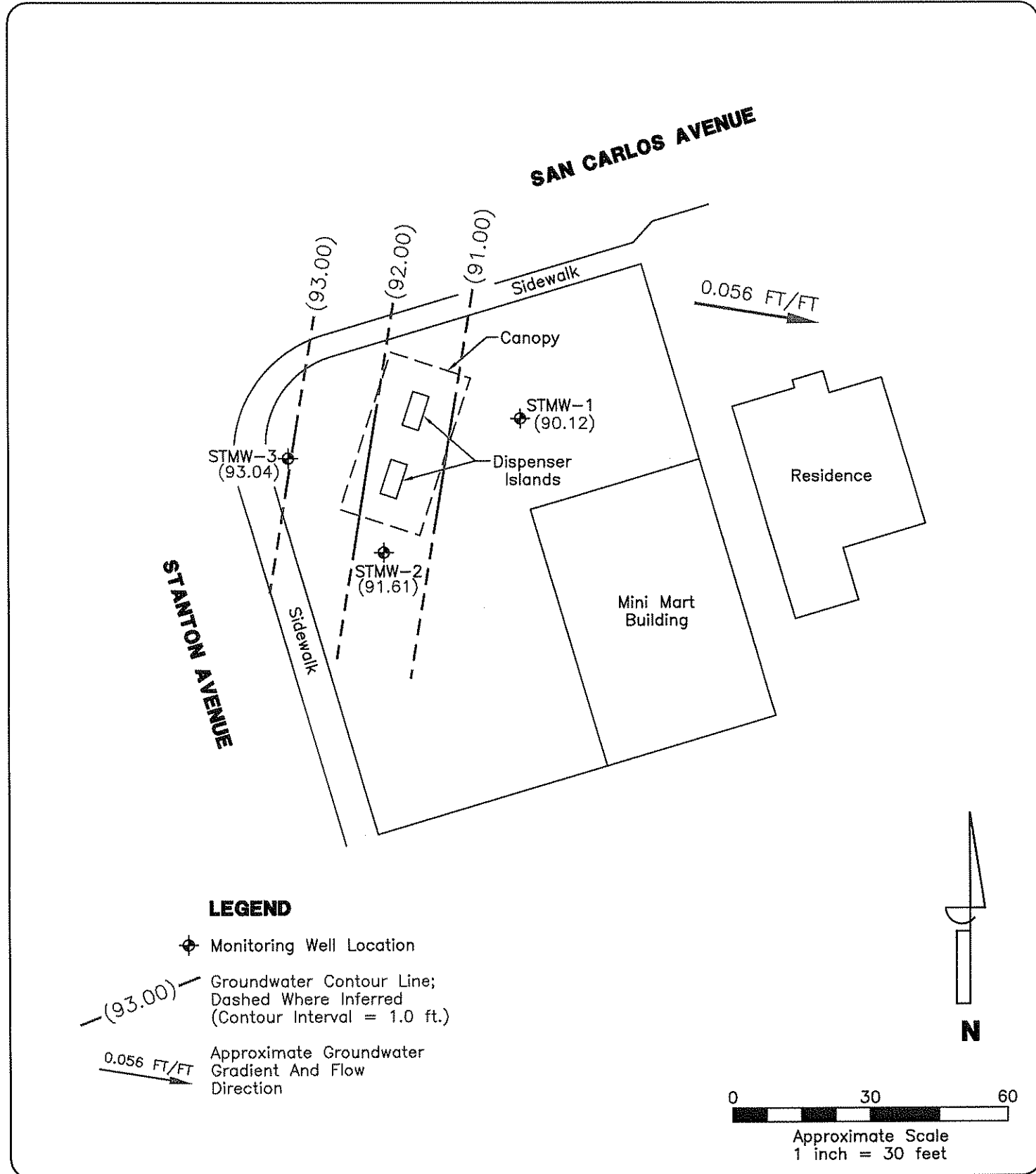
Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California


FIGURE

2

PROJECT NUMBER:

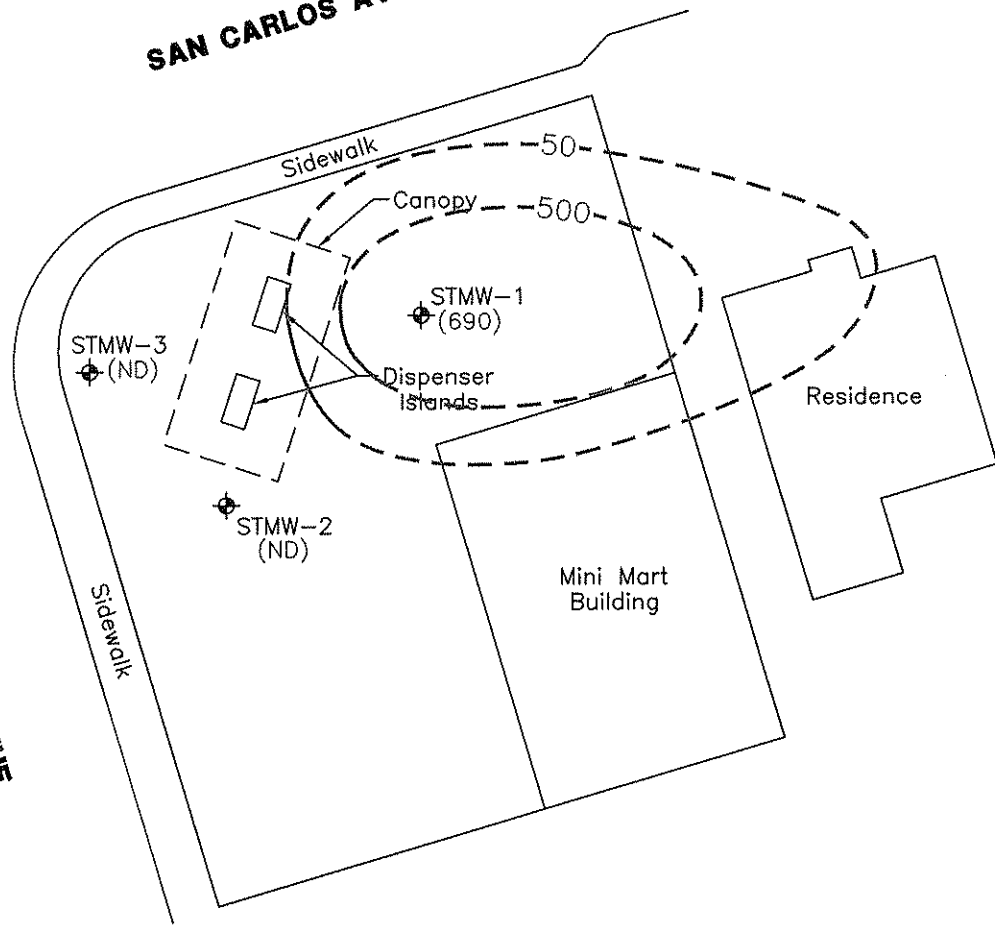
STS08.001



| | | | |
|---|--------------------------------------|---|---------------------|
|  | DRAWN BY: D. Alston DATE: 1/30/08 | GROUNDWATER CONTOUR MAP, DECEMBER 20, 2007 | FIGURE 3 |
| | REVISIONS | | |
| | | PROJECT NUMBER: | |
| | | STS08.001 | |

SAN CARLOS AVENUE

STANTON AVENUE



LEGEND

- ⊕ Monitoring Well Location
- (690) Concentration Of TPHg In Groundwater Measured In ug/L
- 500— Line Of Equal Concentration Of TPHg In Groundwater Measured In ug/L; Dashed Where Inferred
- (ND) Not Detected



Approximate Scale
1 inch = 30 feet



DRAWN BY: D. Alston
DATE: 1/30/08

| REVISIONS | |
|-----------|--|
| | |
| | |
| | |

**TPHg IN GROUNDWATER ISOCONCENTRATION
MAP: DECEMBER 20, 2007**

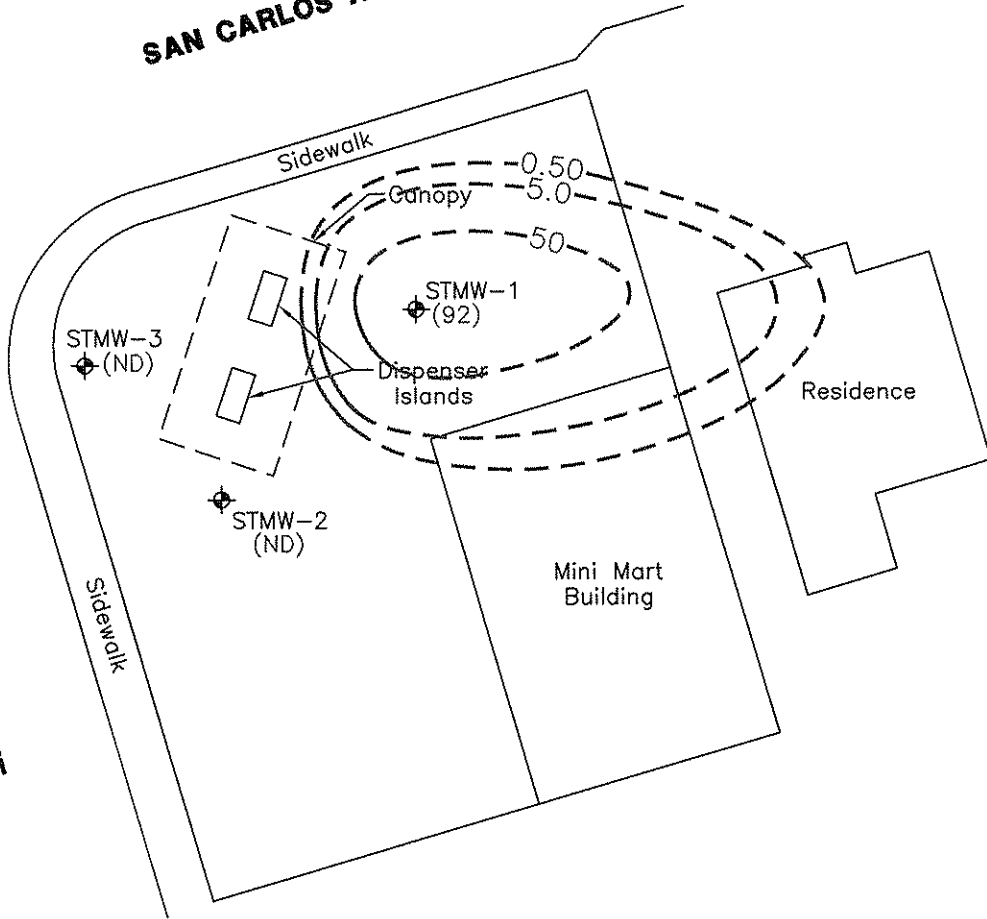
Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California

FIGURE
4

PROJECT NUMBER:
STS08.001

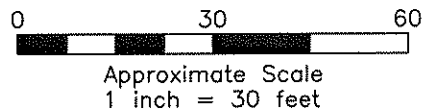
SAN CARLOS AVENUE

STANTON AVENUE



LEGEND

- ◆ Monitoring Well Location
- (92) Concentration Of Benzene In Groundwater Measured In ug/L
- 50— Line Of Equal Concentration Of Benzene In Groundwater Measured In ug/L; Dashed Where Inferred
- (ND) Not Detected



DRAWN BY: D. Alston
DATE: 1/30/08

| REVISIONS | |
|-----------|--|
| | |
| | |
| | |

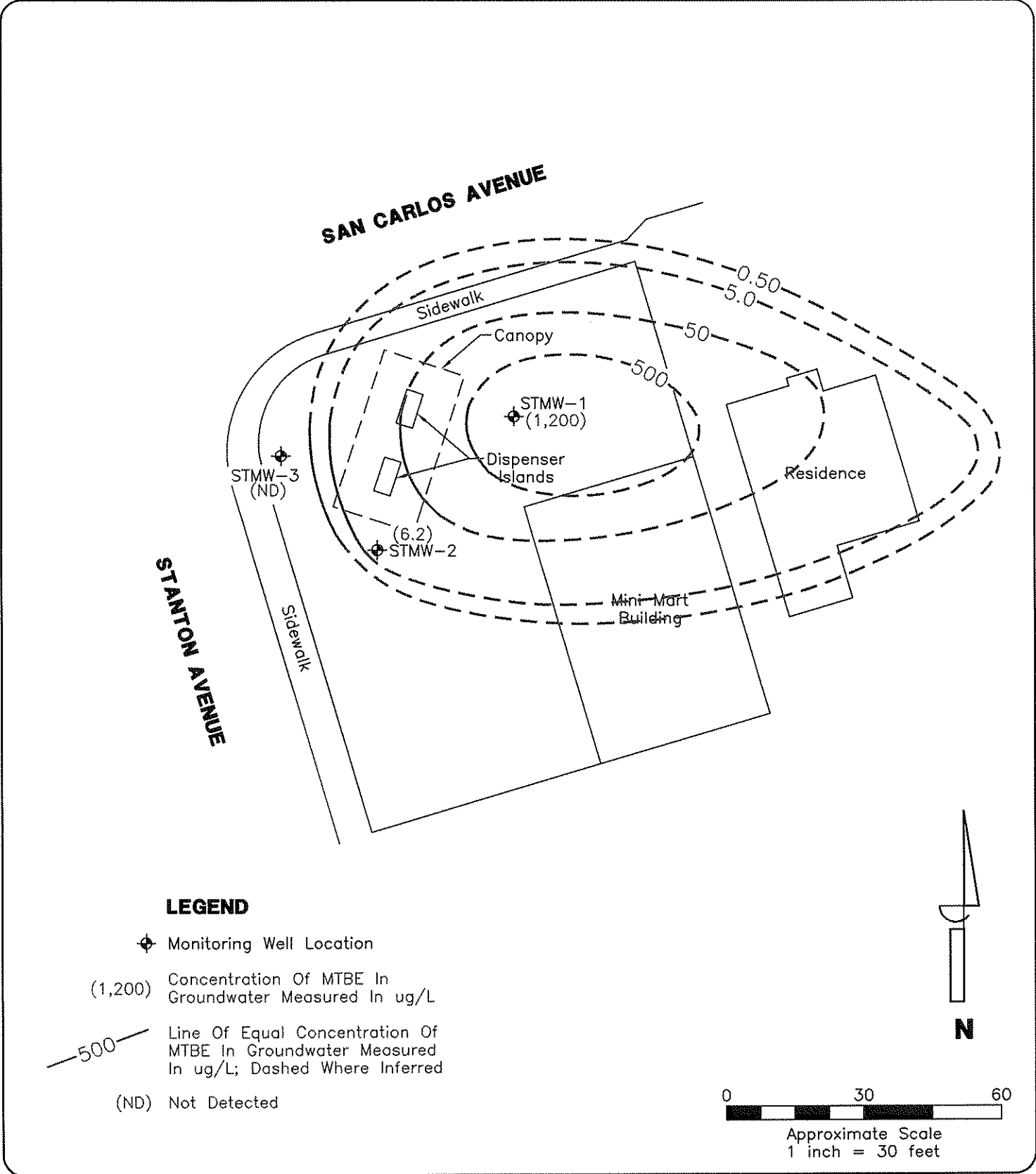
BENZENE IN GROUNDWATER ISOCONCENTRATION MAP: DECEMBER 20, 2007

Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California

FIGURE

5

PROJECT NUMBER:
STS08.001



LEGEND

⊕ Monitoring Well Location

(1,200) Concentration Of MTBE In Groundwater Measured In ug/L

—500— Line Of Equal Concentration Of MTBE In Groundwater Measured In ug/L; Dashed Where Inferred

(ND) Not Detected



Approximate Scale
1 inch = 30 feet

| | | | |
|--|--------------------------------------|--|---------------------|
| | DRAWN BY: D. Alston DATE: 1/30/08 | MTBE IN GROUNDWATER ISOCONCENTRATION MAP, DECEMBER 20, 2007 | FIGURE 6 |
| | REVISIONS | | |
| | | PROJECT NUMBER: | |
| | | STS08.001 | |

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California

| Well Number | Well Installation Date | Elevation TOC (feet) | Casing Material | Total Depth (feet) | Well Depth (feet) | Casing Diameter (inches) | Screened Interval (feet) | Filter Pack Interval (feet) |
|-------------|------------------------|----------------------|-----------------|--------------------|-------------------|--------------------------|--------------------------|-----------------------------|
| STMW-1 | 10/2000 | 97.93 | PVC | 23 | 23 | 2 | 9-23 | 8-23 |
| STMW-2 | 10/2000 | 99.04 | PVC | 23 | 22 | 2 | 9-22 | 8-22 |
| STMW-3 | 10/2000 | 99.60 | PVC | 23 | 22 | 2 | 9-22 | 8-22 |

Notes:
 TOC = Top of Casing

TABLE 2
GROUNDWATER ELEVATION DATA
 Stop 'N' Save
 20570 Stanton Avenue
 Castro Valley, California

| Monitoring Well | Date | Reference Elevation* | Depth to Groundwater | Groundwater Elevation | Groundwater Flow Direction |
|-----------------|----------|----------------------|----------------------|-----------------------|----------------------------|
| STMW-1 | 10/4/00 | 97.93 | 8.34 | 89.59 | --- |
| | 1/4/01 | | 7.86 | 90.07 | --- |
| | 3/16/04 | | 5.70 | 92.23 | --- |
| | 7/5/04 | | 4.82 | 93.11 | --- |
| | 12/28/04 | | 6.82 | 91.11 | --- |
| | 3/24/05 | | 5.63 | 92.30 | --- |
| | 7/20/05 | | 5.75 | 92.18 | --- |
| | 9/15/05 | | 7.44 | 90.49 | --- |
| | 12/12/05 | | 5.32 | 92.61 | --- |
| | 3/16/06 | | 3.90 | 94.03 | --- |
| | 6/22/06 | | 7.12 | 90.81 | --- |
| | 9/21/06 | | 7.78 | 90.15 | --- |
| | 12/18/06 | | 9.12 | 88.81 | --- |
| | 3/22/07 | | 6.82 | 91.11 | --- |
| | 6/29/07 | | 9.86 | 88.07 | E |
| 9/28/07 | 6.88 | 91.05 | NE | | |
| 12/20/07 | 7.81 | 90.12 | E | | |
| STMW-2 | 10/4/00 | 99.04 | 8.22 | 90.82 | --- |
| | 1/4/01 | | 6.70 | 92.34 | --- |
| | 3/16/04 | | 6.08 | 92.96 | --- |
| | 7/5/04 | | 6.86 | 92.18 | --- |
| | 12/28/04 | | 6.22 | 92.82 | --- |
| | 3/24/05 | | 5.12 | 93.92 | --- |
| | 7/20/05 | | 5.66 | 93.38 | --- |
| | 9/15/05 | | 6.14 | 92.90 | --- |
| | 12/12/05 | | 6.68 | 92.36 | --- |
| | 3/16/06 | | 5.54 | 93.50 | --- |
| | 6/22/06 | | 6.02 | 93.02 | --- |
| | 9/21/06 | | 6.94 | 92.10 | --- |
| | 12/18/06 | | 6.46 | 92.58 | --- |
| | 3/22/07 | | 6.16 | 92.88 | --- |
| | 6/29/07 | | 9.06 | 89.98 | E |
| 9/28/07 | 7.63 | 91.41 | NE | | |
| 12/20/07 | 7.43 | 91.61 | E | | |
| STMW-3 | 10/4/00 | 99.60 | 8.42 | 91.18 | --- |
| | 1/4/01 | | 6.16 | 93.44 | --- |
| | 3/16/04 | | 7.18 | 92.42 | --- |
| | 7/5/04 | | 6.27 | 93.33 | --- |
| | 12/28/04 | | 5.64 | 93.96 | --- |
| | 3/24/05 | | 5.12 | 94.48 | --- |
| | 7/20/05 | | 5.50 | 94.10 | --- |
| | 9/15/05 | | 5.56 | 94.04 | --- |
| | 12/12/05 | | 6.26 | 93.34 | --- |
| | 3/16/06 | | 5.14 | 94.46 | --- |
| | 6/22/06 | | 5.92 | 93.68 | --- |
| | 9/21/06 | | 6.14 | 93.46 | --- |
| | 12/18/06 | | 5.50 | 94.10 | --- |
| | 3/22/07 | | 5.88 | 93.72 | --- |
| | 6/29/07 | | 8.82 | 90.78 | E |
| 9/28/07 | 8.14 | 91.46 | NE | | |
| 12/20/07 | 6.56 | 93.04 | E | | |

NOTES

* -Wells surveyed to mean sea level

**TABLE 3
GROUNDWATER ANALYTICAL DATA
Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California**

| Sample ID | Date | TPH as Gasoline (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethyl benzene (ug/L) | Total Xylenes (ug/L) | Five Oxygenates by EPA Method 8260 | | | | | Lead Scavengers | |
|-----------|------------|------------------------|----------------|----------------|----------------------|----------------------|------------------------------------|--------------|----------------|---------------|----------------|-----------------|------------|
| | | | | | | | DIPE (ug/L) | ETBE (ug/L) | MTBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) |
| STMW-1 | 10/4/00 | 60,000 | <2,500 | <2,500 | <2,500 | <2,500 | --- | --- | 69,000 | --- | <10,000 | --- | --- |
| | 1/4/01 | 71,000 | <5,000 | <5,000 | <5,000 | <5,000 | --- | --- | 89,000 | --- | <20,000 | --- | --- |
| | 3/16/04 | 260 | 52 | 64 | 7.9 | 27 | --- | --- | 39 | --- | <10 | --- | --- |
| | 7/5/04 | 2,100 | 17 | 240 | 2.6 | 12 | --- | --- | 520 | --- | <50 | --- | --- |
| | 12/28/04 | 310 | 89 | 90 | 11 | 43 | --- | --- | 32 | --- | <20 | --- | --- |
| | 3/24/05 | 630 | 43 | 140 | 16 | 110 | --- | --- | 20 | --- | <20 | --- | --- |
| | 7/20/05 | 330b | 12 | 22 | <2.5 | 9.3 | --- | --- | 310 | --- | <50 | --- | --- |
| | 9/15/05 | 15,000 | <100 | <100 | <100 | <100 | --- | --- | 13,000 | --- | 2,500 | --- | --- |
| | 12/12/05 | 130 | 4.4 | 7.5 | <1.0 | 3 | --- | --- | 170 | --- | 100 | --- | --- |
| | 3/16/06 | <50 | 0.9 | 3.3 | <0.5 | <0.5 | --- | --- | 21 | --- | <10 | --- | --- |
| | 6/22/06 | 130 | 4.4 | 54 | <1.0 | 7.1 | --- | --- | 70 | --- | <20 | --- | --- |
| | 9/21/06 | 880 | 110 | 32 | 18 | 110 | --- | --- | 1,600 | --- | 2,300 | --- | --- |
| | 12/18/06 | 240 | 7.5 | 130 | 1.4 | 7.6 | --- | --- | 130 | --- | 180 | --- | --- |
| | 3/22/07 | 190 | 17 | 13 | 2.9 | 14 | --- | --- | 360 | --- | 170 | --- | --- |
| | 6/29/07 | 2,700 | 340 | 45 | 52 | 310 | --- | --- | 3,100 | --- | 2,200 | --- | --- |
| 9/28/07 | 1,000 | 85 | 2.5 | 11 | 72 | <2.5 | <2.5 | 1,000 | <2.5 | 5,300 | <2.5 | <2.5 | |
| 12/20/07 | 690 | 92 | <5.0 | <5.0 | 36 | <5.0 | <5.0 | 1,200 | <5.0 | 15,000 | <5.0 | <5.0 | |
| STMW-2 | 10/4/00 | 69 | <5.0 | <5.0 | <5.0 | <5.0 | --- | --- | 66 | --- | <20 | --- | --- |
| | 1/4/01 | 110 | <5.0 | <5.0 | <5.0 | <5.0 | --- | --- | 120 | --- | <20 | --- | --- |
| | 3/16/04 | 1,100a | <10 | <10 | <10 | <20 | --- | --- | 1,700 | --- | <200 | --- | --- |
| | 7/5/04 | 1,800b | <10 | <10 | <10 | <20 | --- | --- | 1,800 | --- | <200 | --- | --- |
| | 12/28/04 | 1,000b | <13 | <13 | <13 | <13 | --- | --- | 1,400 | --- | <250 | --- | --- |
| | 3/24/05 | 760 | <5.0 | <5.0 | <5.0 | <5.0 | --- | --- | 930 | --- | 180 | --- | --- |
| | 7/20/05 | 64 | <1.0 | <1.0 | <1.0 | <1.0 | --- | --- | 43 | --- | 920 | --- | --- |
| | 9/15/05 | 53 | <1.0 | <1.0 | <1.0 | <1.0 | --- | --- | 88 | --- | 130 | --- | --- |
| | 12/12/05 | <50 | 2.2 | <0.5 | 0.6 | <0.5 | --- | --- | 23 | --- | 22 | --- | --- |
| | 3/16/06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 34 | --- | 150 | --- | --- |
| | 6/22/06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 12 | --- | 200 | --- | --- |
| | 9/21/06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 16 | --- | 41 | --- | --- |
| | 12/18/06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 15 | --- | 71 | --- | --- |
| | 3/22/07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 15 | --- | 71 | --- | --- |
| | 6/29/07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 14 | --- | <10 | --- | --- |
| 9/28/07 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | 14 | <0.5 | <5.0 | <0.5 | <0.5 | |
| 12/20/07 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | 6.2 | <0.5 | 54 | <0.5 | <0.5 | |
| STMW-3 | 10/4/00 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | --- | --- | <5.0 | --- | <20 | --- | --- |
| | 1/4/01 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | --- | --- | <5.0 | --- | <20 | --- | --- |
| | 3/16/04 | <50 | <0.5 | <0.5 | <.5 | <1.0 | --- | --- | 2.8 | --- | <10 | --- | --- |
| | 7/5/04 | <25 | <0.5 | <0.5 | <0.5 | <1.0 | --- | --- | 2.5 | --- | <10 | --- | --- |
| | 12/28/04 | <25 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 2.0 | --- | <10 | --- | --- |
| | 3/24/05 | <25 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 1.4 | --- | <10 | --- | --- |
| | 7/20/05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 1.5 | --- | <10 | --- | --- |
| | 9/15/05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | 1.2 | --- | <10 | --- | --- |
| | 12/12/05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | <1.0 | --- | <0.5 | --- | --- |
| | 3/16/06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | <1.0 | --- | <10 | --- | --- |
| | 6/22/06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | <1.0 | --- | <10 | --- | --- |
| | 9/21/06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | <1.0 | --- | <10 | --- | --- |
| | 12/18/06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | <1.0 | --- | <10 | --- | --- |
| | 3/22/07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | <1.0 | --- | <10 | --- | --- |
| | 6/29/07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | <1.0 | --- | <10 | --- | --- |
| 9/28/07 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 | |
| 12/20/07 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 | |

NOTES:

- TPH - Total Petroleum Hydrocarbons
- MTBE - Methyl Tertiary Butyl Ether
- TBA - Tertiary Butyl Alcohol
- DIPE - Di-isopropyl Ether
- EDB - Ethylene Dibromide
- ETBE - Ethyl Tertiary Butyl Ether
- TAME - Tertiary Amyl Methyl Ether
- 1,2-DCA - 1,2-Dichloroethane
- a - No other indication of gasoline besides MTBE
- ug/L - micrograms per Liter
- b - TPH as gasoline reported value due to high concentration of MTBE present in the TPHg quantitation range

APPENDIX A

APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.
STANDARD OPERATING PROCEDURES
Quarterly Monitoring Reports

SOP – 4
SAMPLE IDENTIFICATION AND CHAIN-OF
CUSTODY PROCUDURES

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, other pertinent field observations also recorded on the field excavation or boring logs.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP – 5
LABORATORY ANALYTICAL QUALITY
ASSURANCE AND CONTROL

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and periodic instrument maintenance;
4. "out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports.

SOP – 7
GROUNDWATER PURGING AND SAMPLING

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten wetted-casing volumes of groundwater have been recovered, or the well is bailed dry.

When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

SOP – 12
MEASURING LIQUID LEVELS USING
WATER LEVEL METER OR INTERFACE
PROBE

Field equipment used for liquid-level gauging typically includes the measuring instrument (water-level meter or interface probe and product bailer(s)). The field kit also includes cleaning supplies (buckets, solution, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurements, the instrument tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indication of the DTW measurement is made accordingly. The steady tone indicates floating liquid hydrocarbons (FLH). In this case, the depth-to-product (DTP) indication and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When FLH are indicated by the probe's response, a product bailer is lowered partially through the FLH water interface to confirm the FLH thickness, particularly in cases where the FLH layer is quite thin. This measurement is recorded on the data sheet as "FLH thickness."

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

APPENDIX B
FIELD DATA SHEETS

PURGE/DEVELOPMENT LOG

SITE INFORMATION

Project Name: Stop 'N' Save **Project #:** STS08.001 **Well ID:** STMW-2
Project Manager: Drew Van Allen **Task #:** 1 **Date:** 12/20/07
Recorded by: Tamera Rogers **Type of Well:** Monitoring
Project Address: 20570 Stanton Avenue, Castro Valley, California

PURGE VOLUME

Well Casing Diameter: x 2-inch x 4-inch other
 Well Total Depth: 21.22 feet below Top of Casing, TD
 Depth to Water: 7.43 feet below Top of Casing, WL
 Water Column Length: 13.79 feet

Purge Volume Calculation (Water Column Length x Multiplier x No. Volumes = Purge Volume)

$$\frac{13.79}{\text{Water Column Length}} \times \frac{0.16}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \underline{6.62} \text{ gallons}$$

Multiplier: Casing Diameter (inches) = Gallons/linear foot: 2 = 0.16, 4 = 0.65, 6 = 1.5, 8 = 2.5

PURGE METHOD

- Disposable Bailer
- PVC Bailer
- Submersible Pump
- Centrifugal Pump
- Other

SAMPLE METHOD

- Disposable Bailer
- Pump
- Grab
- Other

| TIME | TEMP. (deg C) | pH | COND. (uS/cm) | DO (mg/L) | REDOX (mV) | TOTAL VOLUME PURGED | COMMENTS |
|------|------------------|------|------------------|--------------|---------------|---------------------------|----------------|
| 1:05 | 20.0 | 6.75 | 794 | | | 2.25 | |
| 1:10 | 21.2 | 6.73 | 821 | | | 4.50 | |
| 1:15 | 21.0 | 6.69 | 926 | | | 6.75 | sampled @ 1:55 |
| | | | | | | | |
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Notes: _____

Drum Count: _____

APPENDIX C

**LABORATORY ANALYTICAL REPORT AND
CHAIN-OF-CUSTODY FORM**

argon laboratories

03 January 2008

Drew Van Allen
Apex Envirotech, Inc.
3446 North Golden State Blvd., Suite C
Turlock, CA 95382

RE: Stop-N-Save #108 Project Data

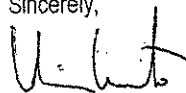
Enclosed are the results for sample(s) received on 12/21/07 10:21 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

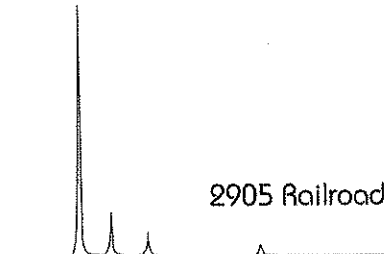
Sincerely,



Hiram Cueto
Lab Manager

2905 Railroad Avenue, Ceres, CA 95307 • Phone (209) 581-9280 • Fax (209) 581-9282

email: info@argonlabs.com



Argon Laboratories Sample Receipt Checklist

Client Name: Apex Envirotech, Inc. Date & Time Received: 12/21/07 10:21

Project Name: Stop N Save Client Project Number: STS08.001

Received By: C.R. Matrix: Water Soil Sludge

Sample Carrier: Client Laboratory Fed Ex UPS Other

Argon Labs Project Number: H712063

Shipper Container in good condition? N/A Yes No Samples received in proper containers? Yes No

Samples received under refrigeration? Yes No Samples received intact? Yes No

Chain of custody present? Yes No Sufficient sample volume for requested tests? Yes No

Chain of Custody signed by all parties? Yes No Samples received within holding time? Yes No

Do samples contain proper preservative? N/A Yes No

Chain of Custody matches all sample labels? Yes No Do VOA vials contain zero headspace? (None submitted) Yes No

ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW

Date Client Contacted: _____ Person Contacted: _____

Contacted By: _____ Subject: _____

Comments:

Action Taken:

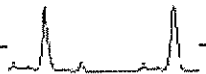
ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments:



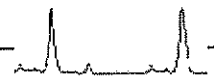


| | | |
|--|--|----------------------------|
| Apex Envirotech, Inc. 3446 North Golden State Blvd., Suite C Turlock, CA 95382 | Project Number: SNS08.001 Project Name: Stop-N-Save #108 Project Manager: Drew Van Allen | Work Order No.: H712063 |
|--|--|----------------------------|

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| STMW-1 | H712063-01 | Water | 12/20/07 14:05 | 12/21/07 10:21 |
| STMW-2 | H712063-02 | Water | 12/20/07 13:55 | 12/21/07 10:21 |
| STMW-3 | H712063-03 | Water | 12/20/07 13:45 | 12/21/07 10:21 |

Approved By
Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Apex Envirotech, Inc.
3446 North Golden State Blvd., Suite C
Turlock, CA 95382

Project Number: SNS08.001
Project Name: Stop-N-Save #108
Project Manager: Drew Van Allen

Work Order No.:
H712063

TPH-gas & Volatile Organic Compounds by GC/MS

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|----------|--------|-------|

STMW-1 (H712063-01) Water Sampled: 20-Dec-07 14:05 Received: 21-Dec-07 10:21

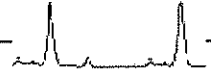
| | | | | | | | |
|---------------------------------------|-------|-------|------|----|-----------|-----------|--|
| Total Petroleum Hydrocarbons @ | 690 | 500 | ug/L | 10 | 21-Dec-07 | EPA 8260B | |
| Gasoline | | | | | | | |
| Benzene | 92 | 5.0 | " | " | " | " | |
| Toluene | ND | 5.0 | " | " | " | " | |
| Xylenes, total | 36 | 10 | " | " | " | " | |
| Ethyl Benzene | ND | 5.0 | " | " | " | " | |
| t-Butanol | 15000 | 50 | " | " | " | " | |
| Methyl tert-Butyl Ether | 1200 | 5.0 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 5.0 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 5.0 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 5.0 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 5.0 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | " | " | " | " | |
| Surr. Rec.: | | 110 % | | | " | " | |

STMW-2 (H712063-02) Water Sampled: 20-Dec-07 13:55 Received: 21-Dec-07 10:21

| | | | | | | | |
|---------------------------------------|-----|-------|------|---|-----------|-----------|--|
| Total Petroleum Hydrocarbons @ | ND | 50 | ug/L | 1 | 21-Dec-07 | EPA 8260B | |
| Gasoline | | | | | | | |
| Benzene | ND | 0.5 | " | " | " | " | |
| Toluene | ND | 0.5 | " | " | " | " | |
| Xylenes, total | ND | 1.0 | " | " | " | " | |
| Ethyl Benzene | ND | 0.5 | " | " | " | " | |
| t-Butanol | 54 | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | 6.2 | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 105 % | | | " | " | |

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Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Apex Envirotech, Inc.
3446 North Golden State Blvd., Suite C
Turlock, CA 95382

Project Number: SNS08.001
Project Name: Stop-N-Save #108
Project Manager: Drew Van Allen

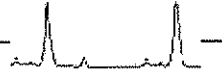
Work Order No.:
H712063

TPH-gas & Volatile Organic Compounds by GC/MS

| Analyte | Result | Reporting Limit | Units | Dilution | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|-----------|-----------|-------|
| STMW-3 (H712063-03) Water Sampled: 20-Dec-07 13:45 Received: 21-Dec-07 10:21 | | | | | | | |
| Total Petroleum Hydrocarbons @ | ND | 50 | ug/L | 1 | 21-Dec-07 | EPA 8260B | |
| Gasoline | | | | | | | |
| Benzene | ND | 0.5 | " | " | " | " | |
| Toluene | ND | 0.5 | " | " | " | " | |
| Xylenes, total | ND | 1.0 | " | " | " | " | |
| Ethyl Benzene | ND | 0.5 | " | " | " | " | |
| t-Butanol | ND | 5.0 | " | " | " | " | |
| Methyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| Di-Isopropyl Ether | ND | 0.5 | " | " | " | " | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | " | " | " | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.5 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | " | " | " | |
| Surr. Rec.: | | 94 % | | | " | " | |

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Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



| | | |
|--|--|----------------------------|
| Apex Envirotech, Inc. 3446 North Golden State Blvd., Suite C Turlock, CA 95382 | Project Number: SNS08.001 Project Name: Stop-N-Save #108 Project Manager: Drew Van Allen | Work Order No.: H712063 |
|--|--|----------------------------|

TPH-gas & Volatile Organic Compounds by GC/MS - Quality Control

Argon Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch HQL0179 - EPA 5030B

Blank (HQL0179-BLK1)

Prepared & Analyzed: 12/21/07

| | | | | | | | | | | |
|---|------|-----|------|------|--|----|--------|--|--|--|
| <i>Surrogate: Fluorobenzene</i> | 49.0 | | ug/L | 50.0 | | 98 | 70-130 | | | |
| Total Petroleum Hydrocarbons @ Gasoline | ND | 50 | " | | | | | | | |
| Benzene | ND | 0.5 | " | | | | | | | |
| Toluene | ND | 0.5 | " | | | | | | | |
| Xylenes, total | ND | 1.0 | " | | | | | | | |
| Ethyl Benzene | ND | 0.5 | " | | | | | | | |
| t-Butanol | ND | 5.0 | " | | | | | | | |
| Methyl tert-Butyl Ether | ND | 0.5 | " | | | | | | | |
| Di-Isopropyl Ether | ND | 0.5 | " | | | | | | | |
| Ethyl tert-Butyl Ether | ND | 0.5 | " | | | | | | | |
| tert-Amyl Methyl Ether | ND | 0.5 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 0.5 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.5 | " | | | | | | | |

LCS (HQL0179-BS1)

Prepared & Analyzed: 12/21/07

| | | | | | | | | | | |
|-------------------------|------|--|------|------|--|-----|--------|--|--|--|
| 1,2-Dibromoethane (EDB) | 26.0 | | ug/L | 25.0 | | 104 | 80-120 | | | |
|-------------------------|------|--|------|------|--|-----|--------|--|--|--|

LCS Dup (HQL0179-BSD1)

Prepared & Analyzed: 12/21/07

| | | | | | | | | | | |
|-------------------------|------|--|------|------|--|----|--------|---|----|--|
| 1,2-Dibromoethane (EDB) | 24.5 | | ug/L | 25.0 | | 98 | 80-120 | 6 | 20 | |
|-------------------------|------|--|------|------|--|----|--------|---|----|--|

Matrix Spike (HQL0179-MS1)

Source: H712055-03

Prepared & Analyzed: 12/21/07

| | | | | | | | | | | |
|---|-----|--|------|------|----|----|--------|--|--|--|
| Total Petroleum Hydrocarbons @ Gasoline | 950 | | ug/L | 1000 | ND | 95 | 70-130 | | | |
|---|-----|--|------|------|----|----|--------|--|--|--|

Matrix Spike Dup (HQL0179-MSD1)

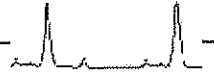
Source: H712055-03

Prepared & Analyzed: 12/21/07

| | | | | | | | | | | |
|---|-----|--|------|------|----|----|--------|---|----|--|
| Total Petroleum Hydrocarbons @ Gasoline | 910 | | ug/L | 1000 | ND | 91 | 70-130 | 4 | 20 | |
|---|-----|--|------|------|----|----|--------|---|----|--|

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Apex Envirotech, Inc.
3446 North Golden State Blvd., Suite C
Turlock, CA 95382

Project Number: SNS08.001
Project Name: Stop-N-Save #108
Project Manager: Drew Van Allen

Work Order No.:
H712063

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359