

STL Los Angeles 1721 South Grand Avenue Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921 www.stl-inc.com

February 10, 2005

STL LOT NUMBER: **E5A280317** PO/CONTRACT: GEM-62109

SCOTT ROBINSON URS Corporation 1333 Broadway Suite 800 Oakland, CA 94612

Dear SCOTT ROBINSON.

This report contains the analytical results for the six samples received under chain of custody by STL Los Angeles on January 27, 2005. These samples are associated with your ARCO #5387 project. Preliminary data was provided on February 7, 2005.

STL Los Angeles certifies that the test results provided in this report meet all the requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA/E87652.

Any matrix related anomaly is footnoted within the report. A cooler receipt temperature between 2-6 degrees Celsius is within EPA acceptance criteria. The temperature(s) of the coolers received for this project can be found on the Project Receipt Checklist.

This report shall not be reproduced except in full, without the written approval of the laboratory.

000025
This report contains _____ pages.



E5A280317 1

CASE NARRATIVE

Historical control limits for the LCS are used to define the estimate of uncertainty for a method.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

URS personnel provided the Enfos number and other additional information regarding this project on January 27, 2005. This information was not indicated on the chain of custody.

If you have any questions, please feel free to call me at 714.258.8610.

Sincerely,

Sabina Sudoko Project Manager CC: Project File



LOT NUMBER E5A280317

Nonconformance 05-11380

Affected Samples:

E5A280317 (1): SG-5-P-4.5 E5A280317 (2): SG-5-P-8.5 E5A280317 (3): SG-9-P-5.5 E5A280317 (4): SG-9-P-9.0 E5A280317 (5): SG-10-P-5.5 E5A280317 (6): SG-10-P-9.0

Affected Methods:

160.3 MOD, WALKLEY-BLACK

Details:

Please note that the samples were collected on 12/10/05.



E5A280317



Chain of Custody Record

97742 Page / of On-site Time: Temp:

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| | | 21111 | 2. 20. | | | | uested Due Date | (mn | /44 | /UU) | ount | у пе | aith | Care | ट उल | vice: | 9 | | | | | Event | s: | | | | | | | _ |
| | | | | | • | 4 | Lested, Due Date | (mu | ruw | ,33) | • | | | | | _ | - | | Wind | Speed | i: | | | | | Direc | tion: | | | _ |
| Name: | URS - PLEASANT HI | LL | | | | *** | BP/AR Facility No | | | ΑD | 200 | 707 | | | | - | | | la la | • • | _ | | _ | | ~— <u>;—</u> . | | | | | _ |
| ess: | 3840 VINCENT ROAD, S | UITEC | ···· | | | _ | DDIAD Facility A 11 Connects of Table 2 | | | | | | | | | Con | tractor | r: | | S Corp | | - | | | _ | | | | | |
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| 'М: | SAM CAPPS | | | | | | California Global-ID No.: T0600101368 | | | | | | | | | 3 | | | | | kland, | | | | | _ | | | | |
| Fax: | 925-974-1550 | | | | | _ | E-C- P-l-4N | | | | | | | | | | tractor | | | <u>lo.:</u> | | | 06360 | l | _ | | | | | |
| R PM Contac | t: Paul Supple | | | _ | | - | Provision or RCOI | | rcle c | ne) | | | | | | | | | Tele/I | | Con | HECTO | PM: | | | | Robin | | | _ |
| ess: | P.O. Box 6549 | | | | | | Phase/WBS: | | | ,,,, | | | | | | | | | | | | 001 | | | | 510-8 | 874-32 | 80 | | _ |
| | Moraga, CA 94549 | | | | | | Sub Phase/Task: | | | | | | | | | | | - | E-mai | | _ | QC L | evei: | | | | | | | _ |
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| Bottle Order | No: | | | J | Matr | ix | | T | |] | Prese | rvat | ive | | <u> </u> | | | Reau | est d | Апаіз | sis. | 30,141 | UII | ᢡ | Attant | ie Kier | mem c | .o. (C11 | rcie o | 16 |
| Item No. | Sample Description | Time | Date | Soil/Solid | Water/Liquid | Air | Laboratory No. | No. of Containers | Unpreserved | H ₂ SO, | HNO, | НСІ | Methanol | | BTEX 8021 | втех/трн | H | EPA 8260 | Ì | OLEAN'S CARTEN | CONTENT | | | | Sam | | oint Li Iomme | at/Long nts | g and | |
| 1 | 54-5-P-4.5 | 0815 | 14/19/0 | | | | | i — | | | T | | T | İ | ╬ | | ╘ | | | H | \mathbb{H} | H | | # | | | | | | = |
| 2 | 54-5-0-8-5 | 0820 | " | ┰ | _ | | | | ₩- | \vdash | +- | | ✝ | ┪ | ╫╌ | | | | | | H | | | I II | ora | | | | | _ |
| 3 | 54-9-1-5.5 | 1/30 | " | × | + | | | | - | | + | - | 1 | t | ╟┈ | - | H | | | | | | | i II | NTEA | | | JALK | <u>ee</u> | _ |
| 4 | 54-7-1-9.0 | 1148 | 4 | 卜 | — | П | | ╟ | | - | 1 | ┢ | | \vdash | ╟ | | - | | | | 귀 | H | | | ACK | | MOD | | | _ |
| 5 | SG -10-P -5.5 | 09/5 | ŧ, | × | + | Н | | ╟ | ╟┈ | | ╁╴ | ┢ | | ┢ | ╟ | ╁╌ | \vdash | | | | + | + | + | | sen | | | | 4 | _ |
| 6 | SG-10-7-9.0 | 0930 | u | K | | Н | | | | | + | - | | \vdash | ╫╴ | ╂ | - | | | H. | - | +1 | | ╢╌ | | | | <u>L</u> – | LA | |
| 7 . | | 1 | ╁┈┈ | ╬ | | \neg | OR | | | 3 | رد | | | 7 | | | | | - | | 4 | 1 | 1 | ╬ | | As. | | | | _ |
| 8 | | | ╢ | ╢─ | H | \dashv | UA | | | 7.7 | | | 74 | - | | | 4 | | | | l | T, | Ø, | عد |),,,, | 5/ | V | | | _ |
| 9 | | _ | 1 | ₩- | ╁┥ | \dashv | · · · · · · · · · · · · · · · · · · · | - | <u> </u> | - | ╁ | | | | <u> </u> | <u> </u> | | | _ | + | _ | | <u> </u> | 上 | | | _ | | | _ |
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| oler's Name: | KEVIN UNO | | | | 7 | Щ | Reling | u leba | | | 2.5 | | | | H | 4 | 4 | | -1 | | 1 | | | 2 | 4 | 7 | 2 | 4 | | _ |
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| nent Date: | 12-115/06 | - 0.1100 | V | | | -1 | The same way | _/ | UA | <u> </u> | Coy | ماه | - | | 12-4 | 5/01 | | ‡ | -00 | - ^ | | ببة | <u> </u> | مه | | | | -100 | | |
| nent Method | d: | | | | _ | | | | | | - | | | | ╫ | _ | - | | # | <u> </u> | = | | <u> </u> | | | | - | THE | 1/2 | <u> </u> |
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| ody Seals In | Place Yes No | | , | Te | mp B | 3lan | k Yes No | | | | | Coc | oler 1 | (em | pera | ure 4 | on R | eceir | at 1 | 0_ | | <u> </u> | T-' | | 1- 57 | | | | | _ |
| | Distribution: White Copy - | Laboratory | // Yello | w C | ору - | - BF | Atlantic Richfiel | d Co |). /I | Pink | Con | γ - (| Cons | ulta | nt/C | Ontra | ctor | | <u></u> | | ŭ | <u></u> | 111 | | ank Ye | | No | | | = |
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| STL LOS ANGELES - PROJECT REC | EIPT CHECKLIST T |)ate: 01/18/05 |
|--|--|--|
| LIMS Lot #: | Quote #: 67 | 2676 |
| Client Name: S7 % | Project: | |
| Received by: AB | | 127/05 @ (63D |
| Delivered by: Client STL DHL Fed | Ex UPS Other | / |
| *************************************** | | ····· Initial / Date |
| Custody Seal Status Cooler: Intact Broken | Nope | |
| Custody Seal Status Samples: Intact Broken | | 3 ' |
| Custody Seal #(s): | | • |
| Sampler Signature on COC Yes No | | √ |
| IR Gun # Correction Factor 0.2°C IR pass | ed daily verification Yes | |
| Temperature - BLANK 29 °C FIXTCF = 2.7 | | |
| Temperature – COOLER (°C°C°C | | |
| Samples outside temperature criteria but received within 6 | nours of final sampling Yes | PANIA Proc/28/05 |
| | | |
| One COC/Multiple coolers: Yes-# coolers | | , |
| One or more coolers with an anomaly: Yes - (fill out PR | | - ⊘ N/A |
| | *** ***** | |
| | ify lab and file NCM) | |
| | reate NCM NCM # | • |
| Complete shipment received in good condition with corre | ct temperatures, containers, label | s, volumes |
| preservatives and within method specified holding times. Labeled by: Labeling | | N/A |
| Labeling | checked | |
| Turn Around Time: RUSH-24HR RUSH-48HR | ************************************** | *********** |
| Short-Hold Notification: pH Wet Chem Metals | | MAL |
| Outside Analysis(es) (Test/Lab/Date Sent Out): | (Filter/Pres) [Encore []>1/2 | : III expired |
| Outside Attalysis(es) (resultation Date Settl Out): | | |
| | | |
| ********* LEAVE NO BLA | NK SPACES ; USE N/A ********* | |
| | | |
| | ce Anomaly | ANIA POSI 2865 |
| Lab ID Container(s) # Headspace > 6mm | Lab ID Container | (s) # Headspace > 6mm |
| > 6mm | | > 6mm |
| > 6mm | | □ > 6mm |
| > 6mm ☐ > 6mm | | > 6mm > 6mm |
| □ > 6mm | | > 6mm |
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| Fraction | 12 | | | | | | | | | |
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* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore AGB: Amber Glass Bottle, n/f/1:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

| Condition Upon | n Receipt Anomaly Form |
|--|---|
| COOLERS Not Received (received COC only) Leaking Other: | • CUSTODY SEALS (COOLER(S) CONTAINER(S) _ None _ Not Intact _ Other - Other |
| TEMPERATURE (SPECS 4 ± 2°C) Cooler Temp(s) Temperature Blank(s) CONTAINERS | CHAIN OF CUSTODY (COC) |
| Leaking Von Vials with Bubbles > 6mm Broken Extra Without Labels Other: | - LABELS _ Not the same ID/info as in COC _ Incomplete Information _ Markings/Info illegible _ Torn |
| SAMPLES Samples NOT RECEIVED but listed on COC Samples received but NOT LISTED on COC Logged based on Label Information Logged based on info from other samples on COC Logged according to Work Plan Logged on HOLD UNTIL FURTHER NOTICE | |
| Comments: | |
| Corrective Action Implemented: Client Informed: verbally on | By: ln writing on By: |
| Logged by/Date: / 28/05 | PM Review/Date: 1/29 52 |

ANALYTICAL REPORT

PROJECT NO. 38486988.0063601

ARCO #5387

Lot #: E5A280317

SCOTT ROBINSON

URS Corporation

SEVERN TRENT LABORATORIES, INC.

Sabina Sudoko Project Manager

February 10, 2005

METHODS SUMMARY

E5A280317

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|--|----------------------|------------------------------------|
| Percent Moisture Total Organic Carbon | | MCAWW 160.3 MOD WALKLEY WALKLEY |

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",

EPA-600/4-79-020, March 1983 and subsequent revisions.

MSA "Methods of Soil Analysis, Chemical and Microbiological

Properties", Part 2, 2nd Ed., 1982 and Subsequent Revisions.

SAMPLE SUMMARY

E5A280317

| WO # 0W | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---------|---------|------------------|-----------------|--------------|
| G3FCQ | 001 | SG-5-P-4.5 | 12/10/04 | 08:15 |
| G3FC5 | 002 | SG-5-P-8.5 | 12/10/04 | 08:20 |
| G3FC8 | 003 | SG-9-P-5.5 | 12/10/04 | 11:30 |
| G3FDA | 004 | SG-9-P-9.0 | 12/10/04 | 11:45 |
| G3FDC | 005 | SG-10-P-5.5 | 12/10/04 | 09:15 |
| G3FDE | 006 | SG-10-P-9.0 | 12/10/04 | 09:30 |
| | | | | |

11

NOTE(S):

- The analytical results of the samples fisted above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight hasis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

E5A280317

Client Sample ID: SG-5-P-4.5

General Chemistry

Lot-Sample #...: E5A280317-001 Work Order #...: G3FCQ Matrix.....: SO

Date Sampled...: 12/10/04 08:15 Date Received..: 01/27/05 10:30

% Moisture....: 14

| | | | | | PREPARATION- | PREP |
|----------------------------|--------|----------------------------------|--------|--|----------------|----------|
| PARAMETER | RESULT | RL_ | UNITS | METHOD | ANALYSIS DATE | BATCH # |
| Percent Moisture | 13.7 | 0.10 | 욯 | MCAWW 160.3 MOD | 02/03-02/04/05 | 5034420 |
| | | Dilution Facto | or: 1 | Analysis Time: 18:00 | Analyst ID | : 021088 |
| | | ĭnstrument ID. | .: W15 | MS Run #: 503423 | 8 MDL | : |
| Total Organic Carbon (TOC) | 0.11 | 0.058 | 8 | MSA WALKLKY-BLACK | 02/07/05 | 5035515 |
| | | Dilution Facto Instrument ID. | | Analysis Time: 08:40 MS Run #: 503809 | Analyst ID | |

NOTE(S):

RI. Reporting Limit

Client Sample ID: SG-5-P-8.5

General Chemistry

Lot-Sample #...: R5A280317-002 Work Order #...: G3FC5 Matrix.....: \$0

Date Sampled...: 12/10/04 08:20 Date Received..: 01/27/05 10:30

% Moisture....: 14

| PARAMETER | RESULT | RL_ | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------------------|--------|----------------------------------|-------|--|-------------------------------|-----------------|
| Percent Moisture | 14.4 | 0.10 Dilution Facto | : - | MCAWW 160.3 MOD Analysis Time: 18:005 MS Run #: 503423 | • | : 0210884 |
| Total Organic Carbon (TOC) | ND | 0.058 | 8 | MSA WALKLEY-BLACK | | 5035515 |
| | | Dilution Factor Instrument ID | | Analysis Time: 08:45 MS Run #: 503809 | Analyst ID | |

NOTE(S):

RL. Reporting Limit

Client Sample ID: SG-9-P-5.5

General Chemistry

Lot-Sample #...: E5A280317-003 Work Order #...: G3FC8 Matrix.....: S0

Date Sampled...: 12/10/04 11:30 Date Received..: 01/27/05 10:30

% Moisture....: 14

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- PREP ANALYSIS DATE BATCH # |
|-------------------------------|--------|--|------------|---|--|
| Percent Moisture | 13.5 | 0.10 Dilution Factor Instrument ID | | MCAWW 160.3 MOD Analysis Time 18:00: MS Run #: 50342: | • |
| Total Organic Carbon (TOC) | 0.25 | 0.058 | % or: 1 | MSA WALKLEY-BLACE Analysis Time: 08:50 | , , |
| | | Instrument ID | : NO INST | MS Run #: 50380 | 94 MDL 0.023 |

NOTE(S):

RL Reporting Limit

Client Sample ID: SG-9-P-9.0

General Chemistry

Lot-Sample #...: E5A280317-004 Work Order #...: G3FDA Matrix.....: S0

Date Sampled...: 12/10/04 11:45 Date Received..: 01/27/05 10:30

% Moisture....: 14

| PARAMETER | RESULI | r_ RL | UNITS | METHOD | PREPARATION- PREP ANALYSIS DATE BATCH # |
|----------------------|--------|------------------------|-------|--|--|
| Percent Moisture | 13.6 | 0.10 Dilution Fact | | MCAWW 160.3 MOD Analysis Time: 18:00S | |
| Total Organic Carbon | 0.056 | Instrument ID FX 0.058 | % W15 | MS Run #: 503423 | |
| (TOC) | | Dilution Fact | | Analysis Time: 08:55 MS Run #: 503809 | Analyst ID: 0000228 |

NOTE(S):

RI. Reporting Limit

Results and reporting limits have been adjusted for dry weight.

FX. This analyte is present in the associated method blank.

Client Sample ID: SG-10-P-5.5

General Chemistry

Lot-Sample #...: E5A280317-005 Work Order #...: G3FDC Matrix.....: S0

Date Sampled...: 12/10/04 09:15 Date Received..: 01/27/05 10:30

% Moisture....: 18

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- PREP ANALYSIS DATE BATCH # |
|-------------------------------|--------|--|----------------|--|--|
| Percent Moisture | 17.5 | 0.10 Dilution Fact Instrument ID | · - | MCAWW 160.3 MOD Analysis Time: 18:00 MS Run #: 50342 | • |
| Total Organic Carbon (TOC) | 0.25 | 0.061 | 9. | MSA WALKLEY-BLACI | R 02/07/05 5035515 |
| | | Dilution Factor Instrument ID | | Analysis Time: 09:00 MS Run #: 50380 | |

NOTE(S):

Rl. Reporting Limit

Client Sample ID: SG-10-P-9.0

General Chemistry

Lot-Sample #...: E5A280317-006 Work Order #...: G3FDE Matrix.....: S0

Date Sampled...: 12/10/04 09:30 Date Received..: 01/27/05 10:30

% Moisture....: 16

| PARAMETER | RESULT | RL RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------------------|--------|--|-------|--|-------------------------------|-----------------|
| Percent Moisture | _ | 0.10 ilution Facto nstrument ID. | | MCAWW 160.3 MOD Analysis Time: 18:00S MS Run #: 503423 | • | : 0210894 |
| Total Organic Carbon (TOC) | ND | 0.060 | 8 | MSA WALKLEY-BLACK | 02/07/05 | 5035515 |
| | | ilution Facto nstrument ID. | | Analysis Time: 09:05 MS Run #: 503809 | Analyst ID 4 MDL | |

NOTE(S):

RL Reporting Limit

SEVERN STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5A280317

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---------|--------|----------------------|------------------|-----------------|---------|
| 001 | so | MSA WALKLEY-BLACK | | 5035515 | 5038094 |
| | SO | MCAWW 160.3 MOD | | 5034420 | 5034238 |
| 002 | SO | MSA WALKLEY-BLACK | | 5035515 | 5038094 |
| | SO | MCAWW 160.3 MOD | | 5034420 | 5034238 |
| 003 | so | MSA WALKLEY-BLACK | | 5035515 | 5038094 |
| | SO | MCAWW 160.3 MOD | | 5034420 | 5034238 |
| 004 | so | MSA WALKLEY-BLACK | | 5035515 | 5038094 |
| | SO | MCAWW 160.3 MOD | | 5034420 | 5034238 |
| 005 | \$0 | MSA WALKLEY-BLACK | | 5035515 | 5038094 |
| | \$0 | MCAWW 160.3 MOD | | 5034420 | 5034238 |
| 006 | so | MSA WALKLEY-BLACK | | 5035515 | 5038094 |
| | SO | MCAWW 160.3 MOD | | 5034420 | 5034238 |

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5A280317

Matrix....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|---|--------|------------------------|-------------|-------------------|-------------------------------|-----------------|
| Total Organic (| Carbon | Work Order | #: G3W5H1AA | MB Lot-Sample # | : E5B040000-515 | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ИD | 0.050 Dilution Fact | % or: 1 | MSA WALKLEY-BLAC | K 02/07/05 | 5035515 |
| | | Analysis Time | : 08:30 | Analyst ID: 00002 | 2 Instrument ID. | .: NO |
| NOTE(S): | | | | | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot # ...: E5A280317

Matrix....: SOLID

PERCENT

RECOVERY

PREPARATION-

PREP

PARAMETER

LIMITS RECOVERY

METHOD

ANALYSIS DATE

BATCH #

Total Organic Carbon

Work Order #: G3W5H1AC LCS Lot-Sample#: E5B040000-515

(TOC)

104

(80 - 130) MSA WALKLEY-BLACK

02/07/05

5035515

Dilution Factor: 1

Analysis Time..: 08:30 Analyst ID....: 000022

Instrument ID..: NO INST

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A280317

Matrix..... SOLID

| SPIKE | MEASURED | PERCNT | PREPARATION - |

Instrument ID..: NO INST

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Matrix....: SO Client Lot #...: E5A280317

Date Sampled...: 12/10/04 09:30 Date Received..: 01/27/05 10:30

| PARAMETER Total Organic | PERCENT RECOVERY Carbon | RECOVERY LIMITS WO#: | | PD MITS METH AD-MS/G3FDE | | PREPARATION- ANALYSIS DATE ot-Sample #: E5 | PREP <u>BATCH #</u> A280317-006 |
|-------------------------|-------------------------------|--------------------------|----------------------------------|--------------------------------|--------------------------------|--|---------------------------------------|
| (TOC) | 102 104 | (80 - 130) (80 - 130) | | | WALKLEY-BLACK WALKLEY-BLACK | | 5035515 5035515 |
| | | Anal | tion Factor ysis Time in # | .: 09:10 | Instrument ID: | NO INST Analyst | ID 000022 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5A280317 Matrix.....: SO

Date Sampled...: 12/10/04 09:30 Date Received..: 01/27/05 10:30

| | SAMPLE | SPIKE | MEASRD | | PERCNI | ı | | | PREPARATION- | PREP |
|----------|------------|-------|--------|---------------|-----------|----------|--------|------------|-------------------------|---------|
| PARAMETE | R AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD_ | METH | IOD | ANALYSIS DATE | BATCH # |
| Total Or | ganic Carl | oon | WO# : | G3FDE1AD-N | 4S/G3FDE1 | AE-MSI |) MS | Lot-Sampl | le #: E5A28031 7 | -006 |
| (TOC) | _ | | | | | | | | | |
| | ИD | 0.562 | 0.571 | શ્ | 102 | | MSA | WALKLEY-B | 02/07/05 | 5035515 |
| | ND | 0.562 | 0.583 | \$; | 104 | 2.0 | MSA | WALKLEY-B | 02/07/05 | 5035515 |
| | | | Diluti | ion Factor: 1 | | | | | | |
| | | | Analys | sis Time: 0 | 9:10 | nstrumei | ıt ID. | .: NO INST | Analyst ID: | 000022 |
| | | | MS Rui | 1 # 5 | 038094 | | | | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Matrix..... SO Work Order #...: G3FCQ-SMP Client Lot #...: E5A280317

G3FCQ-DUP

Date Sampled...: 12/10/04 08:15 Date Received..: 01/27/05 10:30

| % Moisture: | DUPLICATE | | | RPD | | PREPARATION- | PREP |
|------------------|-----------|--------------|--------|--------|---------------------|----------------|---------|
| PARAM RESULT | RESULT | UNITS | RPD | LIMIT | METHOD | ANALYSIS DATE | BATCH # |
| Percent Moisture | | | | | SD Lot-Sample #: | | |
| 13.7 | 13.6 | * | 0.73 | (0-10) | MCAWW 160.3 MOD | 02/03-02/04/05 | 5034420 |
| | | Dilution Fac | tor: 1 | Ana | alysis Time: 18:00 | Analyst ID: | 021088 |
| | | Instrument I | D: W15 | MS | Run Number: 5034238 | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

| Page _ | of |
|--------|----|

SUMMA AIR SAMPLING WORK SHEET

| Site: <u>5387</u> | Site#: |
|--|--------------------------|
| Samplers: KEVIN UND AND SRIJESY PHATPA | Work Assignment Manager: |
| Date: 12/21/24 | Project Leader: |

| Sample # | 54-6.5.5 | 59-9-5.5 | SG-6-9.5 | 86-9-9.5 | |
|--------------------------|----------|-----------------|------------------|---|--------|
| Location | 54-6 | 59-9 | 56-6 | 56-9 | |
| SUMMA ID | A-283 | 122 738 | A-315 | #0101 | |
| Orifice Used | QR-5877 | 17-208 | HT-07 | SR16 | |
| Analysis/Method | | <u>.</u> | | | |
| Time (Start) | 0848 | 1000 | /33 4 | 1359 | |
| Time (Stop) | 1005 | 1106 | /533 | 1448 | |
| Total Time | 77 | 66 | 119 | 49 | |
| SUMMA WENT TO AMBIENT | YES/(O) | YES/ () | YES/(10) | YES/NO) | YES/NO |
| Pressure Gauge | 30' Hg | 30'Hg | 30" Нд | 30" 4g | |
| Pressure Gauge | 2' Hg | 5"Hg | c'ug. | 5"Mg. | |
| Flow Rate (Pre) | | -1 | ··· <i>U</i> | <u>, </u> | |
| Flow Rate (Post) | | | | | |
| Flow Rate (Average) | | | | | |

| | MET | Station | On-site? | Y | 1 | N |
|--|-----|---------|----------|---|---|---|
|--|-----|---------|----------|---|---|---|

Canister Sampling Field Data Sheet

| | _ | | |
|------|---|----|--|
| Page | 2 | of | |

SUMMA AIR SAMPLING WORK SHEET

| Site: Arcs 5387 | Site#: |
|-----------------------------|-------------------------------|
| Samplers: 5. THARA + K. unb | Work Assignment Manager: |
| Date: 12/10/04 | Project Leader: 1000 ROBINSON |

| Sample # | 56 -8-9.0 | 5G- \$ -8.5 | SG-5-8.5DUP | | |
|--------------------------|------------------|---------------------------------------|----------------|--------|--------|
| Location | 5G-8 | 56-5 | Se-5 | | |
| SUMMA ID | 92458 | A-275 | 4 636₿₿ | | |
| Orifice Used | PT-218 | 5R 16 | ar 6959 | | |
| Analysis/Method | | | | | |
| Time (Start) | 1709 | 1738 | 163/ | | |
| Time (Stop) | 1359 | 1815 | 1928 | , | |
| Total Time | 45 MIN | 37 | 57 | | |
| SUMMA WENT TO AMBIENT | YES/NO | yes/no | YES N O | YES/NO | YES/NO |
| Pressure Gauge | 30" Hq | 38 ⁴ Hg | 30"Hg | | |
| Pressure Gauge | 5" Hg | 5"H1 | 30"Hg 5"Hg | | |
| Flow Rate (Pre) | | · · · · · · · · · · · · · · · · · · · | • | | |
| Flow Rate (Post) | | | | | |
| Flow Rate (Average) | | | | | |

MET Station On-site? Y / N

| Canister | Sampling | Field | Data | Sheet |
|----------|----------|-------|------|-------|
|----------|----------|-------|------|-------|

| _ | - 1 | ^ | |
|------|-----|----|--|
| Page | _ { | of | |

SUMMA AIR SAMPLING WORK SHEET

| Site: ARCO | Site#: # 538 7 |
|--------------------------------|------------------------------|
| Samplers: 5. THAPA & KEVIN UNO | Work Assignment Manager: |
| Date: | Project Leader: SOTT ROBINSW |

| Sample # | 59-5-4.5 | 56-4-8.5 | 59-5-8-5 | SF-8-5.0 | 56-8-5.0 |
|--------------------------|----------------|----------|-----------|----------|----------------|
| Location | 79-5 | 59-4 | 54-5 | 54-4 | SG-8 |
| SUMMA ID | A-270 | A - 279 | 0089 | A152 | GL0155 |
| Orifice Used | STL - 003 | 5R-25 | HF ET-114 | SRZG | SR/0 |
| Analysis/Method | | | | | |
| Time (Start) | 9:37 | 11 16 | /228 | 1259 | 1502 |
| Time (Stop) | 10 45 | 120% | /307 | 1616 | 1611 |
| Total Time | 68 min | 48 min | 39 mi | | |
| SUMMA WENT TO AMBIENT | YES/I © | YES/NO | YES/M | YESÆØ | YES/N © |
| Pressure Gauge | 30"Ng | 30"H4 | 30" 49 | 30 TMg | 30 Mg |
| Pressure Gauge | 5.5 "Mg | 5" ng | 5 "ug | 5.5"Hg | 5 "Hg |
| Flow Rate (Pre) | | | - | | |
| Flow Rate (Post) | | | | | |
| Flow Rate (Average) | · | | | | |

MET Station On-site? Y / N

Canister Sampling Field Data Sheet

Page $\underline{\mathcal{L}}$ of $\underline{\mathcal{L}}$

SUMMA AIR SAMPLING WORK SHEET

| Site: 9 Samplers: 5 Date: | 75 B. Thura S. Robinson, 12 Way | R-Windwall Wor | Site k Assignment Manaş Project Leac | | |
|--|---------------------------------|----------------|--|--------|-------------|
| Sample # | S6-1-17,0 | SG -3-7.0 Du | o | | |
| Location | SG-1 | \$6-3 | | | |
| SUMMA ID | 93153 | 93108 | | | |
| Orifice Used | SR-24 | STL-003 | | | |
| Analysis/Method | | | | | |
| Time (Start) | 15'47 | 16:07 | | | |
| Time (Stop) | 16.45 | 14:53 | | | |
| Total Time | 58 min | AV MIN | | | |
| SUMMA WENT TO AMBIENT | YES/NO | YES/M | YES/NO | YES/NO | YES/NO |
| Pressure Gauge | 30" Hg | 30" Hg | | | |
| Pressure Gauge | 5" Hg | 5" Ha | | | |
| Flow Rate (Pre) | 7 | | | | |
| Flow Rate (Post) | | | | | - |
| Flow Rate (Average) | | | | | |
| MET Station On-site? Y General Comments: | / N | V - W | | | |

Canister Sampling Field Data Sheet

Page $\underline{\int}$ of $\underline{2}$

SUMMA AIR SAMPLING WORK SHEET

| Site: 5387 | Site#: |
|--|--------------------------------|
| Samplers: 5. THAP A SCOTT ROBINSON / RACINGEZ Work A | Assignment Manager: |
| Date: 12/06/06 LINOVALL | Project Leader: SCOTT ROBINSON |

| | | | 1 | i — —————————————————————————————————— | |
|--------------------------|----------|----------|-------------|--|---------|
| Sample # | 54-3-4,0 | 56-2-40 | 39-1-4.0 | 54-2-8-5 | SG-3-17 |
| Location | SG -3 | SC-2 | 56-1 | 56-2 | SG-3 |
| SUMMA ID | 12156 | 12168 | 9/89B | 11419 | 12469 |
| Orifice Used | STL-003 | SR-24 | 574-003 | SRZS | 57-003 |
| Analysis/Method | | | | | |
| Time (Start) | 1109 | 1047 | // 5P | 14:09 | 15:08 |
| Time (Stop) | 1355 | 1123 | 14:45 | 14:50 | 15:50 |
| Total Time | 2kr #7mi | 36 m | ~ofhr 55 mm | 41 min | 42 min |
| SUMMA WENT TO AMBIENT | YES/NO) | YES/(10) | YES/IO | YESA ©) | YES/NO |
| Pressure Gauge | 29"ne | 29"HG | 29" HG | 30" Hg | Ja"Hy |
| Pressure Gauge | 25"44 | 5"HG | 25" HG | 5" Hg | 5" Hq |
| Flow Rate (Pre) | | | | | |
| Flow Rate (Post) | | | | | |
| Flow Rate (Average) | | | | | |
| MET Station On-site? Y | / N | | | | |
| General Comments: | | | | | |

Appendix D Well Survey Results

(Including internal correspondence dated June 7, 2001, documenting performance of well survey)

Canister Sampling Field Data Sheet

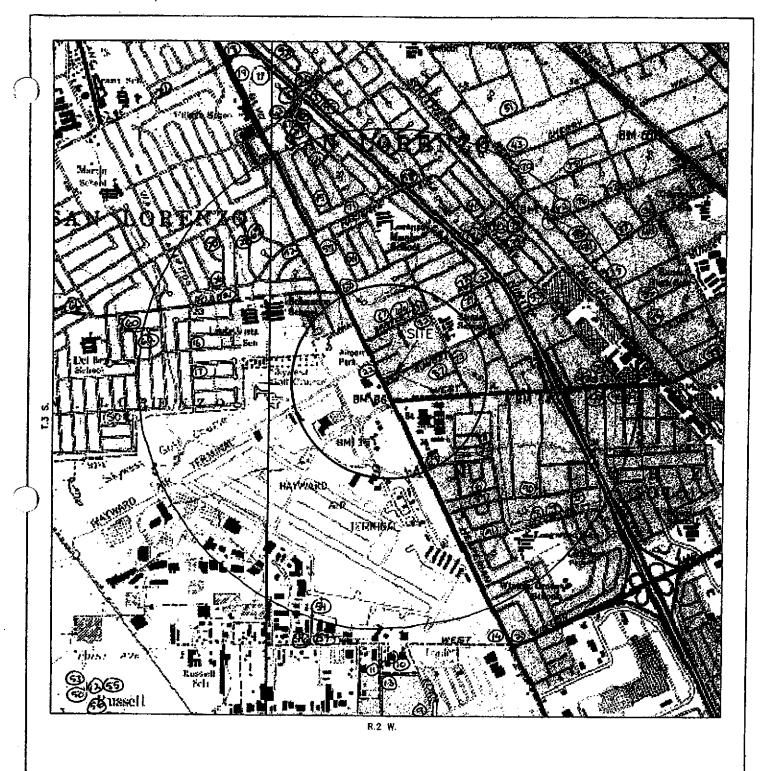
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| Page | of |

SUMMA AIR SAMPLING WORK SHEET

| Site: AL CO 5387 | Site#: 538? |
|------------------------------------|-------------------------------|
| Samplers: KEVIN UNO SE 20234 THAPA | Work Assignment Manager: |
| Date: | Project Leader: SCOTT PORMSON |

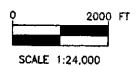
| Sample # | 5G-10-5·5 | 59-7-55 | SG-10-9 | 54-7-10 | |
|--------------------------|-----------|---------|---------------|-----------|--------|
| Location | SG-10 | 54-7 | SG-/0 | 54-7 | |
| SUMMA ID | 930ko | 92020 | 93/37 | 12475 | |
| Orifice Used | SR-24 | SK-24 | SA-24 | SR-28 | |
| Analysis/Method | | | | | |
| Time (Start) | 1305 | 1415 | 1510 | 1600 | |
| Time (Stop) | 1325 | /4 33 | 1528 | 1633 | |
| Total Time | 20 min | 18 min | 18 min | 33 min | |
| SUMMA WENT TO AMBIENT | YESAN | YESNO | YES/ © | YESNO | YES/NO |
| Pressure Gauge | 30"44 | 30"HG | 30"HG | 29 76" HG | |
| Pressure Gauge | 5" HG | 5 " HG | 5" HG | 5 " HG | |
| Flow Rate (Pre) | | | | | |
| Flow Rate (Post) | | | | | |
| Flow Rate (Average) | | | | | |

MET Station On-site? Y / N



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
SAN LEANDRO & HAYWARD, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980





North

FIGURE 1
SITE TOPOGRAPHIC MAP
ARCO SERVICE STATION NO. 05387
20200 HESPERIAN BOULEVARD

HAYWARD, CA.

PROJECT NO. DRAWN BY
D000~318 M.L. 8/8/00
FILE NO. PREPARED BY
D000318A JWS
REVISION NO. REVIEWED BY



TABLE 1

INVENTORY OF WATER WELLS WITHIN 5,280 FEET OF SITE

| Site Map Location | State Well I.D. | Well Location | Date Drilled | Well Type | Total Depth | Screened Interval(s) (ft) | Notes |
|----------------------|-----------------|-------------------------------|-----------------|------------|-------------|---------------------------------|---|
| 1 | 3S/2W-7M3 | 754 Grant Avenue | 06/01/77 | Domestic | 31 | 10.5-30 | outside boundary |
| 2 | 3S/2W-20L | N of W Winton, E of Hesperlan | 03/09/93 | Other | 670 | | outside boundary |
| 3 | 3S/2W-20C1 | 776 Barker Avenue | 05/05/77 | Irrigation | 29 | 20-29 | |
| 4 | 3S/2W-20B3 | 21979 Thelma Street | 07/11/77 | Irrigation | 28.5 | 20-28 | |
| 5 | 3S/2W | 622 Fifth Street | 05/23/53 | Domestic | 72 | 52-72 | |
| 6 | 3S/2W-20D | 849 Lester Avenue | 09/30/77 | Irrigation | 42 | 22-42 | |
| 7 | 3S/2W-20G1 | 22920 Lilla Road | 07/14/77 | Irrigation | 52 | 15-50 | |
| 8 | 3S/2W-20G2 | 22917 Lilla Road | 08/08/77 | Irrigation | 50 | 34-50 | |
| 9 | 3S/2W-19R1 | Eden Avenue | 03/01/49 | | 80 | | outside boundary |
| 10 | 3S/2W-19R2 | Saklin Road | | | 96 | 35-92 | outside boundary |
| 11 | 3S/2W-19R3 | Saklin Road | 09/14/38 | | 125 | | outside boundary |
| 12 | 3S/2W-19R4 | Russel City Road | | | 112 | | |
| 13 | 3S/2W-19R6 | 3431 Brookdale Blvd | 06/21/99 | Domestic | 148 | 128-144 | outside boundary |
| 14 | 3S/2W-19R | 1401 West Winton | 08/29/85 | Other | 848 | | outside boundary |
| 15 | 3S/2W-18M2 | 1304 Via Madera | 06/04/77 | Domestic | 27 | | |
| 16 | 3S/2W-18M3 | 17252 Via Estrella | 04/09/77 | Irrigation | 20 | | |
| 17 | 3S/2W-18N2 | 17356 Via-Alamitos | 06/11/77 | Irrigation | 25 | | |
| 18 | 3S/2W-18J2 | 21626 Hesperian | | | 91 | | outside boundary |
| 19 | 3S/2W-18J3 | Hesperian Blvd | | | 100 | 80-96 | outside boundary |
| 20 | 3S/2W-18J | Royal Avenue | 09/01/48 | | 69 | 60-65 | outside boundary |
| 21 | 3S/2W-18J8 | 1266 Bartlett Avenue | | | 75 | | |
| 22 | 3S/2W-18K3 | Kennedy park, Hesperian Blvd | 03/25/78 | irrigation | 155 | 35-155 | |
| 23 | 3S/2W-18 | 1238 Bartlett Avenue | | Domestic | 202 | | |
| 24 | 3S/2W-18G1 | 18451 Robscott Avenue | 05/07/77 | Domestic | 26 | 15-25 | |
| 25 | 3S/2W-18F4 | 17061 Via Perdido | 05/01/89 | irrigation | 25 | | |
| 26 | 3S/2W-18F3 | 840 Hacienda Avenue | 07/19/77 | Domestic | 1 | 15-29.5 | , , , , , , , , , , , , , , , , , , , |
| 27 | 3S/2W | 700 Hathaway | 02/26/53 | Domestic | 100 | 40-60, 80-100 | |
| 28 | 3\$/2W-18C1 | 17127 Via Flores | 03/13/77 | Irrigation | 25 | 25-Dec | outside boundary |
| 29 | 3S/2W-18B6 | 19578 Via Primero | 06/24/89 | Domestic | 30 | 20-30 | outside boundary |
| 30 | 3S/2W-18B1 | 16138 Via Segundo | | Imigation | 34 | 2000 | |

TABLE 1

INVENTORY OF WATER WELLS WITHIN 5,280 FEET OF SITE

| Site Map Location | State Well I.D. | Well Location | Date Drilled | Well Type | Total Depth | Screened Interval(s) (ft) | Notes |
|----------------------|-----------------|----------------------------------|-----------------|------------|-------------|---------------------------------|---------------------------------------|
| 31 | 3\$/2W-17M1 | 1230 Bartilett Avenue | 10/01/48 | | | 66 | |
| 32 | 3S/2W/17M2 | 130 feet sw of Garden Avenue | | | 72 | 45-63 | |
| 33 | 3S/2W/-17K2 | Comer of West A St. and Hathaway | 07/01/65 | Industrial | 680 | 480-510 | |
| 34 | 3S/2W-17K3 | West A St. and Hathaway | 07/22/65 | Industrial | 680 | | |
| 35 | 3S/2W-17J2 | 746 Poplar Avenue | 03/08/54 | Domestic | 74 | 50-70 | outside boundary |
| 36 | 35/2W-17H | Willow Avenue | 04/28/42 | | 128 | 105-107 | outside boundary |
| 37 | 3S/2W-17G3 | 21455 Meekland | 10/05/77 | Irrigation | 82 | 40-80 | outside boundary |
| 38 | 3\$/2W-17G1 | Meekland and Willow | 05/15/35 | | 93 | 56-93 | outside boundary |
| 39 | 3S/2W-17F3 | Florence and Hathaway | 06/12/31 | | 201 | | - |
| 40 | 3S/2W-17D3 | Highway 17 and Hathaway | | | 68 | 48-60 | |
| 41 | 3S/2W-17D1 | Highway 17 and Hathaway | | | 67 | 48-60 | |
| 42 | 3S/2W-17C4 | 21005 Meekland Avenue | 07/27/77 | Irrigation | 77 | 20-77 | |
| 43 | 3S/2W-17C3 | 163 Cherry Way | 05/17/77 | Irrigation | 63 | 25-66 | outside boundary |
| 44 | 3S/2W-17A3 | 21671 Haviland Avenue | 05/19/77 | Irrigation | 80 | 40-72 | outside boundary |
| 45 | | 1330 Solano | 04/11/53 | Domestic | 61 | 40-61 | |
| 46 | | 1338 Solano | 04/18/53 | Domestic | 61 | 41-61 | |
| 47 | 3S/2W-17R6 | West A St. and Hathaway | 07/16/65 | Industrial | 510 | | · · · · · · · · · · · · · · · · · · · |
| 48 | 3S/2W-17Q5 | 2601 A Street | | Domestic | 63 | | outside boundary |
| 49 | 38/2W-17Q2 | Hathaway and A Street | 07/15/58 | | 541 | 533-541 | |
| 50 | 3S/2W-17Q1 | Russel City Road | 03/03/38 | | 47 | 33-43 | |
| 51 | 3S/2W-8P3 | 219 Medford Avenue | 01/31/78 | Irrigation | 83 | 53-83 | outside boundary |
| 52 | | 15881 Via Granada | | Domestic | 70 | | outside boundary |
| 53 | 35/2W-19Q1 | Russel City Road | 05/25/26 | | 81 | 70-80 | outside boundary |
| 54 | 3S/2W-19P5 | 1844 West Winton Avenue | 05/25/77 | Domestic | 100 | 57-96 | |
| 55 | 3S/2W-19N | Russell City | 04/17/53 | industriai | 97 | 41-51 | outside boundary |
| 56 | 3S/2W-19N3 | Washington Avenue | 03/26/43 | | 89 | | outside boundary |
| 57 | 3S/2W-19L02 | 1900 West Winton Avenue | 04/23/92 | Industrial | 160 | 150-160 | outside boundary |
| 58 | 3S/2W-18 | 17061 Via Perdido | 07/01/77 | Irrigation | 29 | | |
| 59 | 3S/2W-18 | 840 Hacienda Avenue | 05/01/89 | Irrigation | 25 | | |

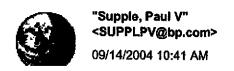
TABLE 1
INVENTORY OF WATER WELLS WITHIN 5,280 FEET OF SITE

| Site Map Location | State Well I.D. | Well Location | Date Drilled | Well Type | Total Depth | Screened interval(s) (ft) | Notes |
|----------------------|-----------------|-------------------------|-----------------|------------|-------------|---------------------------------|------------------|
| 60 | 3S/2W | 17166 Via Del Ray | | Imigation | 30 | | outside boundary |
| 61 | 3S/2W | 1580 Bockman Road | 01/01/53 | Irrigation | 42 | | outside boundary |
| 62 | 3S/2W | 1316 Via Madera | 02/01/89 | Irrigation | 29 | | outside boundary |
| 63 | 3S/2W-18 | 16138 Via Segundo | 09/01/50 | Irrigation | 34 | | |
| 64 | 3S/22-18 | 17162 Via Primero | 02/01/78 | Irrigation | 40 | | |
| 65 | 3S/2W-18 | 17127 Via Flores | 03/01/77 | Irrigation | 25 | | |
| 66 | 3S/2W-18 | 657 Bartlett Avenue | 02/01/18 | Irrigation | 90 | | |
| 67 | 3S/2W-18 | 713 Bartlett Avenue | 01/01/46 | irrigation | 95 | | |
| 68 | 3S/2W-18 | 18600 Hesperian Blvd | 01/01/29 | Irrigation | 65 | | |
| 69 | 3S/2W-18 | 21626 Hesperian Blvd | 12/01/41 | Irrigation | 91 | | |
| 70 | 3S/2W-17 | 19288 Medford Ct | 12/01/55 | Irrigation | 45 | | |
| 71 | 3S/2W-18 | 396 Hacienda Avenue | 11/01/77 | Irrigation | 31 | | |
| 72 | 3S/2W-17 | 421 Bartlett Street | 11/28/01 | Irrigation | 44 | | outside boundary |
| 73 | 3S/2W-17 | 20859 Royal Avenue | 11/01/53 | irrigation | 45 | | |
| 74 | 3S/2W-17 | 20555 Garden Avenue | 11/01/60 | Irrigation | 44 | | outside boundary |
| 75 | 3S/2W-17 | 854 Blossom Way | 05/01/77 | Irrigation | 72 | | outside boundary |
| 76 | 3S/2W-17 | 204 Grove Way | 06/01/33 | Irrigation | 100 | | |
| 77 | 3S/2W-17 | 294 Grove Way | 06/01/86 | Irrigation | 23 | | |
| 78 | 3S/2W-17 | 21005 Meekland Avenue | 07/01/77 | Irrigation | 77 | | |
| 7 9 | 3S/2W-17 | 20161 Times Avenue | 12/01/52 | Irrigation | 55 | | |
| 80 | 3S/2W-17 | 20165 Hathaway | 06/01/31 | irrigation | 200 | | |
| 81 | 3S/2W-17 | 21568 Meekland Avenue | 05/01/34 | Irrigation | 92 | | |
| 82 | 3S/2W-17 | 21455 Meekland | 10/01/77 | Irrigation | 80 | | |
| 83 | 3S/2W-17 | 21335 Hathaway Avenue | 10/01/51 | Irrigation | 70 | | |
| 84 | 3S/2W-17 | 193 Laurel Avenue | 10/01/54 | Irrigation | 85 | | outside boundary |
| 85 | 3S/2W-17 | 351 A Street | | irrigation | 63 | · · | |
| 86 | 3S/2W-19 | 1655 West Winton Avenue | 06/01/46 | Irrigation | 65 | | outside boundary |
| 87 | 3S/2W | 21367 Garden Avenue | 09/18/01 | Irrigation | 85 | | |
| 88 | 3S/2W-20 | 776 Barker Avenue | 05/01/77 | Irrigation | 29 | | |

TABLE 1

INVENTORY OF WATER WELLS WITHIN 5,280 FEET OF SITE

| Site Map Location | State Well I.D. | Well Location | Date Drilled | Well Type | Total Depth (ft) | Screened Interval(s) (ft) | Notes |
|----------------------|-----------------|-----------------------|-----------------|------------|---------------------|---------------------------------|-------|
| 89 | 3S/2W-20 | 849 Lester Avenue | 09/01/77 | irrigation | 42 | | |
| 90 | 3S/2W-20 | 716 Marin Avenue | 08/01/35 | Irrigation | 60 | | |
| 91 | 3S/2W-20 | 22719 Corkwood Street | 07/01/77 | Irrigation | 40 | | |
| 92 | 3S/2W-20 | Vla Arriba & Hacienda | 07/01/91 | Irrigation | 595 | | |



To: <scott_robinson@URSCorp.com>

Subject: FW: Well inventory from DWR and Alameda County Public Works
Combined for ARCO 5387, Hayward CA

----Original Message----

From: smeeks@deltaenv.com [mailto:smeeks@deltaenv.com]

Sent: Thursday, June 07, 2001 9:57 AM

To: SUPPLPV@bp.com

Subject: Well inventory from DWR and Alameda County Public Works

Combined for ARCO 5387, Hayward CA

Paul,

Here are the wells that were listed. As you can see some of the wells fell outside the one mile area after plotting them. However, there are still approximately 59 wells within the 1 mile radius of which 9 are domestic; 38 are irrigation; 9 are unknown; and 3 are industrial.

<<Well Inventory ARCO 5387.pdf>>

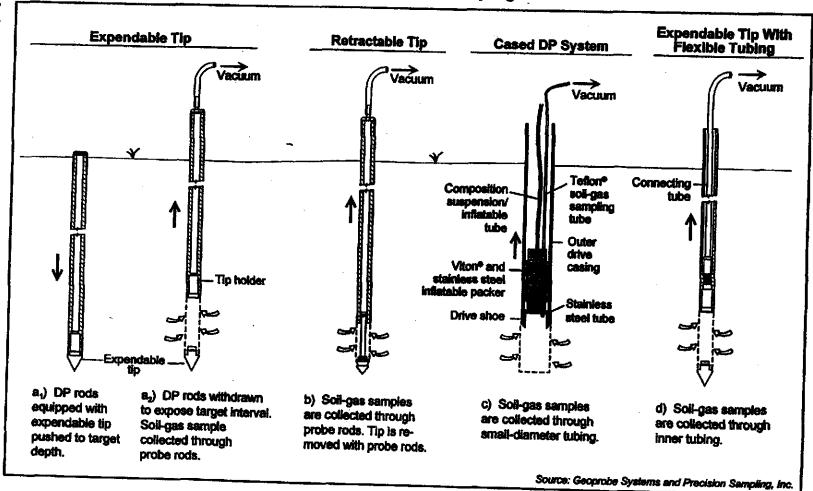
Thanks, Steven Meeks, P.E. Project Manager Delta Environmental Consultants, Inc. Phone: (916) 536-2613

Well Inventory ARCO 5387.p

Fax: (916) 638-8385

Appendix E Typical Soil Vapor Sampling Apparatus

Exhibit V-7
Types Of Direct Push Soil Gas Sampling Tools



Appendix F

Technical Memorandum On The Evaluation Of Vapor Intrusion Concerns At Sites Underlain By Fine-Grained Soils, California Regional Water Quality Control Board, San Francisco Bay Region, February 23, 2004



California Regional Water Quality Control Board

San Francisco Bay Region



Terry Tamminen Secretary for Environmental Protection

1515 Clay Street, Suite 1400, Oakland, California 94612 (510) 622-2300 • Fax (510) 622-2460 http://www.swrcb.ca.gov/rwqcb2

Arnold Schwarzenegger Governor

Ta:

Interested Parties

File No. 1210.40 (RDB)

From: Roger Brewer, EG,

Toxics Cleanup Division

Date: February 23, 2004

Technical Memorandum: Evaluation of Vapor Intrusion Concerns at Sites Underlain by Fine-

Grained Soils

Concu

Toxics Cleanup Division Chief

This memo addresses issues regarding the intrusion of volatile organic compounds into buildings that overly predominantly clayey or silty, "fine-grained" soils. The information provided is not intended to serve as regulatory "guidance." It does, however, reflect Regional Water Board staff's current understanding of and approaches to these issues. To summarize:

- The Regional Water Board's July 2003 Environmental Screening Levels document contains updated screening levels and information for evaluation of vapor intrusion concerns;
- The use of shallow soil gas data is preferred at sites where potential vapor intrusion concerns have been identified, followed by sampling of indoor air if needed;
- A minimum soil gas-to-indoor air attenuation factor of 0.0001 (1/10,000) is recommended for use at sites underlain by silty or clayey soils (i.e., assumed maximum ten-thousand-fold dilution of soil gas in indoor air).

Additional information is provided in our technical document Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003 and updates). Our office is assisting staff of the Department of Toxics Substances Control in preparation of guidance on vapor intrusion and indoor-air impact issues (due later this year). Your comments and suggestions regarding this subject are appreciated.

Revisions to 2001 RBSL Document

The December 2001 edition of our Environmental Screening Levels document (ESLs, formerly called "Risk-Based Screening Levels") was peer reviewed by the University of California in early 2003. Several reviewers commented that the vapor flow rate predicted under the silty clay or "fine-grained" soil scenario (now referred to as "low/moderate permeability" soils) may not be adequately conservative for some Bay area soils. Based on their experience, secondary features such as plant root structures, desiccation cracks, stratigraphic heterogeneities (e.g., thin stringers of sand), underground utilities, disturbance and recompaction during redevelopment, etc., could

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significantly increase the vapor permeability of shallow, clayey and silty soils over that predicted for homogeneous, undisturbed soils. Assuming these soil types in vapor intrusion models without taking this into account could cause the models to under predict vapor flux into buildings and subsequently under predict impacts to indoor air.

Due to the above concerns, soil screening levels for vapor intrusion concerns included in the July 2003 ESL document are based on an assumption that shallow soils have a high vapor permeability, regardless of the soil type (refer to Volume 1, Section 2.7). At sites where significant releases of volatile chemicals has occurred, the use of soil gas data in conjunction with soil data is strongly recommended.

Primary groundwater screening levels presented in the ESL document for vapor intrusion concerns are similarly based on an assumption that overlying vadose-zone soils are highly permeable to volatile chemicals (refer to Volume 1, Section 2.7 and Appendix 1, Section 2.4 of ESL document). Groundwater screening levels for a low/moderate permeability site scenario are also included in Appendix 1 of the ESL document (refer to Table B-1a). However, the model used to develop the screening levels is more conservative than the model used in the December 2001 version of the document (refer to Appendix 1, Section 2.4). The assumed vadose-zone soil in the groundwater vapor-emission model was changed from silty clay (SICL) to a mix of loamy sand (LS) overlying silt (SI). This increased the calculated vapor flux into buildings overlying lower permeability soils from 0.23 cm³/sec to 13 cm³/sec (see Appendix 4 of July 2003 ESL document) with a correlative decrease in groundwater screening levels for this concern. For comparison, the calculated vapor flux into buildings overlying "high-permeability" soils is 67 cm³/sec. The of soil gas data in conjunction with groundwater data is strongly recommended at sites where the groundwater screening levels based on low/moderate permeability vadose-zone soils are applied.

Shallow Soil Gas Screening Levels

In 2003, the emphasis for evaluation of vapor intrusion and indoor-air impact concerns in our ESL document progressed to the use of shallow soil gas data (refer to Volume 1, Section 2.7). At sites where screening levels for soil or groundwater are approached or exceeded, it is recommended that shallow soil gas data be collected and compared to screening levels for vapor intrusion concerns (e.g., refer to Table E in Volume 1). Soil gas data from immediately beneath the building footprint are preferable. At sites where no buildings are present, samples should be collected from a depth of approximately five feet below ground surface. These data should then be assumed to reflect the concentration of volatile chemicals in soil gas immediately beneath any future buildings (e.g., depth to source in models = 15cm). Acceptable protocols for the collection of soil gas samples are discussed in the joint DTSC-LA Regional Water Board document Soil Gas Advisory (DTSC 2003).

Soil gas screening levels presented in Table E of our July 2003 ESL document are based on an assumed soil gas-to-indoor air attenuation factor of either 0.001 for residential settings (i.e., 1,000 times the indoor air goal) or 0.0005 for commercial/industrial settings (i.e., 2,000 times the indoor air goal). These attenuation factors are based on vapor intrusion models that assume

highly permeable, near-surface soils and are within the range of attenuation factors identified in radon studies (refer to Appendix 1, Chapter 4 of the ESL document).

Note that attenuation factors as high as 0.1 have been reported in basements or buildings that have been abandoned or temporarily shut-in. Such locations would likely be uninhabitable do to very poor ventilation and these attenuation factors are not considered to be representative of occupied spaces.

Interim Actions At Sites With Existing Buildings

Sampling of indoor air is generally recommended at sites where concentrations of volatile chemicals in soil gas exceed screening levels for vapor intrusion concerns. Acceptable guidance on the collection of indoor air samples is provided in the Massachusetts Department of Environmental Protection document *Indoor Air Sampling And Evaluation Guide* (MADEP 2002), among other sources. In some cases it may be prudent to collect indoor air samples at the same time that soil gas samples are collected.

Interim Actions At Sites Being Redeveloped

For sites that are being redeveloped, it can reasonably be assumed that significant impacts to indoor air will not occur if concentrations of volatile chemicals in soil gas do not exceed screening levels for vapor intrusion concerns. If more than three carcinogenic chemicals or five chemicals with similar noncarcinogenic health effects are present, cumulative health risk concerns may need to be further evaluated (refer to Volume 1, Section 2.10 in July 2003 ESL document).

At sites where concentrations of volatile chemicals in shallow soil gas exceed default or site-specific screening levels for vapor intrusion concerns, additional evaluation is needed. Vapor intrusion concerns should be considered to be especially significant at sites where the concentrations of volatile chemicals in shallow soil gas exceed 10,000 times the indoor air goal, regardless of the result of more "site-specific" models based on soil type data alone. Aggressive remediation is likely to be recommended prior to construction of new residences or buildings overlying these areas. If redevelopment of a site is to take place prior to final cleanup, the inclusion of passive or active vapor mitigation measures in building designs should be considered (podium parking, impermeable membranes, subslab venting, etc.).

Site-Specific Attenuation Factors

"Site-specific" soil gas-to-indoor air attenuation factors were discussed in length at the "Subsurface Vapor Intrusion to Indoor Air" symposiums held in San Jose and Long Beach, California, in 2003 (sponsored by the Groundwater Resources Association, in cooperation with the USEPA, DTSC and the Regional Water Board). Dr. Paul Johnson of the Arizona State University and Dr. Ron Mosely of the USEPA stressed that attenuation factors based on field data typically ranged from 0.01 (one-hundred-fold dilution) to 0.0001 (ten-thousand-fold dilution), with 0.001 being a reasonable value for screening purposes. In contrast, vapor intrusion models presented with the USEPA document User's Guide For The Johnson and Ettinger (1991) Model For Subsurface Vapor Intrusion Into Buildings (USEPA 2003 and

updates) can be manipulated to predict soil gas-to-indoor air attenuation factors as low as 0.00001 (1/100,000) for silty and clayey soils. Dr. Johnson stressed these attenuation factors may be under-conservative for many sites, due to secondary features mentioned above that enhance the vapor permeability of these types of soils.

It is likely that the silty, clayey nature of shallow soils in many parts of the Bay Area will inhibit vapor flow into buildings more effectively than in areas underlain by sandier and more permeable soils. Until additional field data can be collected and compiled, however, it is prudent to assume that secondary features in silty, clayey soils could enhance vapor flow well above model predictions based on these soil types. "Site-specific" soil gas-to-indoor air attenuation factors should be based on field data from that site, where feasible. At sites where both soil gas and indoor air data are not available, modeled attenuation factors lower than 0.0001 should be avoided in the absence of field based, in-situ studies of soil vapor permeability and vapor flux under advective flow conditions.

If you have any questions, comments or suggestions, please contact Roger Brewer at (510) 622-2374 (e-mail rdb@rb2.swrcb.ca.gov).

References:

DTSC, 2003, Soil Gas Advisory (January 2003): Department of Toxic Substances Control and Los Angeles Regional Water Quality Control Board; www.dtsc.ca.gov/PolicyAndProcedures/SiteCleanup/SMBR_ADV_activesoilgasinvst.pdf

MADEP, 2003, Indoor Air Sampling And Evaluation Guide (2002): Massachusetts Department of Environmental Protection, Office of Research and Standards, WSC Policy #02-430; www.state.ma.us/dep/bwsc/finalpol.htm

RWQCBSF, 2003, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final - July 2003 and updates): California Environmental Protection Agency, Regional Water Quality Control Board, San Francisco Bay Area Region, www.swrcb.ca.gov/rwqcb2/esl.htm

USEPA, 2003, User's Guide For The Johnson and Ettinger (1991) Model For Subsurface Vapor Intrusion Into Buildings: U.S. Environmental Protection Agency Office of Emergency and Remedial Response, March 2003 (and updates), www.epa.gov/oerrpage/superfund/programs/risk/airmodel/johnson_ettinger.htm

Other Useful References:

Annual Toxics Summaries: California Air Resources Board, (includes concentrations of common volatile chemicals in outdoor air), www.arb.ca.gov/aqd/toxics/sitesubstance.html

Chlorinated Chemicals in Your Home (May 2001): California Air Resources Board, (includes concentrations of selected volatile chemicals in indoor air), www.arb.ca.gov/research/indoor/clguide.pdf

Appendix G Wasto Disposal Manifests 9256340931

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Dillard Environmental Services PO Box 579 Byron, CA 94514

TAG NO. 14017

Telephone No. (925) 634-6850 Facsimile No. (925) 634-0560

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Payment terms are not thirty (30) days subject to a charge of 1.5% per month on all past due balances. In the event the account becomes delinquent and it is necessary to institute regiment terms are necturity (set) days subject to a clistige or 1,3% per month on all post due palarices, in the event his account percent administration is necessary to instance of legal proceedings, CUSTOMER agrees to pay DES' attorney's fees incurred in such proceeding, action or suit or in any appeal thereon. The parties agree that actions or legal proceedings, COSTONER agreed to pay OES entertay a rees incurred in outer proceeding, action or sold or in any appear organization, the particles arising in connection with this agreement shall be tried and litigated exclusively in the courts located in Contra Coste County, California,

REPUBLIC SERVICES VASCO ROAD, LLC 4001 N. Vasco Road, Livermore, California 94551 • (925) 447-0491

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TICKET: (M, M, M)CUSTOMER: 6189 ATLIANCE YOU DATE: TRUCK: 91/13/09**95** $\langle \cdot \rangle_2 \rangle$ ACCT#: 3007651 TIME: PROFILE #: 101 4 4 5 (Ø: 4 1900/4010 GENERATOR: 100,1817 ORCD # 05387 GROSS: ORIGIN: 0 LBSManuer: 36536660 TARE: LICENSE: M LBS NET. COMMENT: @ LUS WASTE: QUANTITY UNIT RATE AMOUNT SOTION COOK STREET 1.30 D_{β} Tax I certify that I have not disposed of any liquid or hazardous waste Total: Baymond Yulo Weighmaster: RECYCLING A liquid waste disposal company P.O. Box 2279 Mo. (530) 753-1829

3046 CUSTOMER A Davis, CA 95617 DATE CHARGE DAY OF WEEK DESTINATION DESCRIPTION QTY / HRS RATE CHARGES Monitoring well dewatering / pump test 100 MIN Auger rineate Underground storage tank (UST) Spill/ release (not UST related) Surface Impoundment Drums Above ground storage tank Solids Washout ROWN Calor Sanl-chlor Odor Filters Solids Powersorb Sheet Other Powersorb Boom Transporter THIS TOTAL WILL STAND AS CORRECT UNLESS NOTIFIED OF CORRECTION SALES TAX TERMS NET 30 DAYS, THE CUSTOMER AGREES TO PATA FINANCE CHARGE OF 2% TOTAL 50 TO SIGNED BY X P.06 FEB-07-2005 10:47 9256340931 98%