FOR CONTRACT NO. 07-228204
PROJECT ID: 0700000378

INFORMATION HANDOUT

WATER QUALITY

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

PERMITS

STATE OF CALIFORNIA
DEPARTMENT OF FISH AND GAME
NOTIFICATION NO. 1600-2011-0148-R5

UNITED STATES ARMY CORPS OF ENGINEERS

COASTAL DEVELOPMENT PERMIT

STATE OF CALIFORNIA
STATE LANDS COMMISSION

MATERIALS INFORMATION

GEOTECHNICAL DESIGN REPORT FOR SEAWALL RESTORATION
DATED APRIL 28, 2010

FINAL HYDRAULIC REPORT FOR VENTURA SEAWALL
DATED OCTOBER 29, 2009

SITE INVESTIGATION REPORT FOR BRIDGE Nos. 52-0139 AND 52-0140
DATED FEBRUARY 10, 2010

ROUTE: 07-LA-1-22.5/22.9

State of California

Business, Transportation and Housing Agency

Memorandum

To : MR. Ramin Rashedi
Chief
Bridge design Branch 11

Date: April 28, 2010

File No. 07-VEN-1 PM 22.4/22.9
PM 26.5/26.7
EA 228201
Seawall Restoration

Attn. : MR. Daryoush Tavatli

From : **DEPARTMENT OF TRANSPORTATION**
DIVISOIN OF ENGINEERING SERVICE
Geotechnical Service
Office of Geotechnical Design South-1

Subject : Geotechnical Design Report for Seawall Restoration

As requested by the Structure Design, dated June 5, 2009, the following is the recommendations for following proposed seawalls on the southbound side of highway 1 in Ventura County.

Bridge Name	Bridge No.	PM
Seawall No. 1	52-0139	Ven-01-22.4/22.9
Seawall No. 2	52-0140	Ven-01-26.5/26.7

The project site is shown on the Vicinity Map (Figure 1).

This report is based on the results of our subsurface exploration, review of preliminary geotechnical report and geological information, and geotechnical analysis.

Geotechnical Project Scope

The project consists of replacing two existing retaining seawalls along highway 1, which have seriously deteriorated due to corrosion of steel sheet piles. Top elevation of proposed walls is about 13.6 feet for wall No. 1, and varies from 16.2 feet at the beginning and 14.7 feet at the end for wall No. 2. The original ground elevation may vary with average elevation 7 feet, depending on seasonal sedimentation or scouring of the beach. Based on information provided by DES/Structure Design, scour level is assumed to be at elevation -6 feet at the project sites, and maximum design heights are about 20 feet for wall No. 1 and about 23 feet for wall No. 2. In addition, about 10

feet high curved facing at the upper portion of the walls is proposed to reduce overtopping.

Regional Geology

The project site is located in the Transverse Ranges geomorphic province. The Transverse Ranges are a set of east west trending mountain ranges and valleys that extends approximately 320 miles from Point Arguello on the west to Desert Center on the east where the province merges with the Mojave and Colorado deserts. The province is bounded on the north by the Coast Ranges, California's central valley, and the Mojave Desert. The province is bounded on the south by the Pacific Ocean, the Los Angeles basin and the eastern segments of the San Andreas Fault zone.

Geology

We reviewed the Geologic Map of the Ventura and Pitas Point Quadrangles, Ventura County, California (Dibblee, 1988) for this project. Pico Formation underlies the project site from PM 22.40 to 26.70. The Pico Sandstone underlies the project site north of Pitas Point. And south of Pitas point the formation becomes interbedded with claystone (the Mudpit member). The Mudpit member of the Pico formation consists of massive to vaguely bedded gray claystone or mudstone. Typical Pico formation consists mostly of gray claystone, vaguely bedded, with few thin strata of sandstone. The Pico Sandstone includes some interbedded claystone but consists of mostly light gray to light brown sandstone that is well bedded but may be pebbly in some places.

The Ventura Anticline is the predominant geologic structure in the area of the project site. The hinge of the Ventura Anticline is loosely parallel to the coastline; the southern limb dipping to the southwest at 33 to 45 degrees in the southern part of the site and 40 to 70 degrees in the northern part of the site.

Dibblee (1988) represents the toes of the slopes of Red Mountain, along the Pacific Ocean coast as landslides or quaternary alluvium. Landslides are presented as underlying several sections of the SR-1 and SR-101 between PM 22.40 and PM 26.70.

Seismictiy

The controlling faults of the site are Red Mountain Fault and Pitas Point-Ventura Fault, which are located about 1.3 miles north and south sides of the project site, respectively. Caltrans California Seismic Hazard Map in the project site area is shown in Figure 2 in Attachment. The Maximum Credible Earthquake (MCE) of both faults is 7 1/4. The style of fault is reverse for Red Mountain Fault and reverse-oblique for

Pitas Point-Ventura Fault. Based on our subsurface exploration and geotechnical data available, the soil profile type of the site can be classified as "D". In accordance with Caltrans Guidelines for Foundation Investigations and Reports (June 2002), since the site is located within 15 km from the fault, the Acceleration Response Spectra (ARS) curve for structure design should be modified to account for near fault effect as follows:

1. Spectral ordinates for period equal to and greater then one second are increased by 20%;
2. No changes are required for spectral ordinates for period less than 0.5 second; and
3. Spectral ordinates for periods between 0.5 and 1.0 second shall be determined by linear interpolation.

The Acceleration Response Spectra (ARS) curve modified for the near fault effect is shown in Figure 3 in Attachment B.

The design median peak bedrock acceleration (PBA) at the project location is approximately 0.8 g, and peak ground acceleration (PGA) is approximately 0.67 g.

Review of Existing Wall

In 1934, interlocking steel sheet piles and pressure treated timber cap with tiebacks were installed as seawalls to protect the shoreline. In 1966, new sheet piles with tiebacks were installed in front of the existing sheet piling. The space between the two sheet pilings was filled with beach sand in the lower part, and then filled with Class "C" PCC in the upper part. Seaward face of the new sheet piling was painted with epoxy to protect the sheet piles. In 1978, 2-ton Rock Slope Protection (RSP) was installed along the shoreline beginning at PM. 32.3 and ending at PM 40.0. In 1985, a section of 385 feet long seawall structure damaged by wave was removed and replaced with 8-ton RSP. In addition, the 8-ton RSP was also installed at the toe of the seawalls.

Subsurface Conditions

A total of seven boreholes were drilled for the proposed seawalls using rotary wash drilling method: boreholes R-08-101 to R-08-105 in May, 2008, and R-09-107 and R-09-108 in August, 2009. The location, offset, and elevation of the boreholes are presented on the following table:

Table 4: Summary of Boreholes

Boring Number	Location (ft)		Surface Elevation (ft)	Boring Termination Elevation (ft)	Groundwater Elevation[1] (ft)
	Station	Offset			
R-08-101	56+29.3 CL1	50 LT	14.92	-35.08	N/A
R-08-102	52+81.1 CL1	49 LT	17.50	-24.0	N/A
R-08-103	176+80.7 CL1	49 LT	14.29	-27.21	N/A
R-08-104	171+91.8 CL1	46 LT	14.37	-27.13	N/A
R-08-105	166+98.4 CL1	45 LT	14.44	-27.06	N/A
R-09-106	175+82.4 CL1	53 LT	13.87	-51.13	6.0
R-08-107	169+85.9 CL1	54 LT	13.74	-81.26	N/A

Note:
[1]N/A means the groundwater was not measured because of the borehole filled by polymer slurry and backfilled upon the completion of drilling.

Seawall No. 1

Subsurface materials encountered in the boreholes typically consist of about 15 feet of loose to very dense sandy soil (SP-SM, SP, and SM) with or without gravel, underlain by sedimentary rock (claystone/sandstone/siltstone). The sedimentary rock generally consists of clay to coarse sand, moderately to thickly bedded, slightly weathered to fresh, soft to hard, slightly fractured rock.

Seawall No. 2

Subsurface materials encountered in the boreholes typically consist of about 15 feet of very soft to very stiff, low to high plasticity clays and very dense sandy soil (CL, CH, and SP), underlain by sedimentary rock. The sedimentary rock generally consists of clay to fine sand, moderately bedded, slightly weathered, hard, slightly fractured rock.

For more detailed subsurface information, refer to Log of Testing Boring (LOTB).

Laboratory Testing

Twelve soil samples collected from the boreholes were tested for particle size distribution (California Test Method (CTM) 203), Plasticity Index (CTM 204)), to verify the visual description performed during subsurface exploration. The result of the tests is summarized in Attachment.

Corrosivity

Corrosivity of subsurface materials was tested in accordance with CTM 643. The tested results indicated that the subsurface materials at the bridge site are corrosive behavior. The results of the corrosion testing are presented below:

Table 5: Corrosion Test Result Summary

Borehole Number	Depth Interval (ft)	Lab Sample Number	pH	Minimum Resistivity (ohm-cm)	Sulfate Content (ppm)	Chloride Content (ppm)
R-08-105	10 - 20	TL 101	8.02	273	2100	750

Note:
For Corrosion definitions refer to Caltans Division of Engineering Services " Memo to Designers" 3-1.
[1]Lab Sample Number is assigned when resistivity is less than 1000 ohm-cm and further testing for sulfate and chloride is required.
[2]Caltrans Corrosion Technology Section police states that if the minimum resistivity is greater than 1000 ohm-cm the sample is considered to be noncorrosive and testing to determine sulfate and chloride is not performed.

Groundwater

Based on the groundwater measurement from the piezometer installed on Borehole R-09-106, the groundwater was encountered at elevation 6 feet (7.9 feet below ground surface) on December 16, 2009. The groundwater should be anticipated to be varied due to its seasonal fluctuation.

A review of the Pitas Point Seismic Hazard Report (SHR) revealed a historical highest recorded groundwater depth of 10 feet below ground surface (bgs).

Material Engineering Properties

Based on the subsurface and groundwater condition described in the previous sections, we recommend following material engineering properties and earth pressure coefficient for the wall design:

Seawall No. 1 (Bridge No. 52-0139) Ven-01-22.4/22.9

Elevation (ft)	Soil Type	Soil Unit Weight(1) (pcf)	Submerged Soil Unit Weight (pcf)	Friction Angle (ϕ)	At-rest Earth Pressure (Ko)	Active Earth Pressure Coefficient (Ka)	Passive Earth Pressure Coefficient (Kp)
OG to 6.0	SM	120	57.6	31	0.48	0.32	3.12
6.0 to 0.0	SP	120	57.6	35	0.43	0.28	3.69
0.0 to -51.0	Sandstone/ Claystone	130	67.6	40	0.36	0.22	4.60

Note: (1) Saturated/unsaturated soil weight is assumed the same.
(2) Cohesion is zero.

Seawall No. 2 (Bridge No. 52-0140) Ven-01-26.5/26.7

Elevation (ft)	Soil Type	Soil Unit Weight(1) (pcf)	Submerged Soil Unit Weight (pcf)	Friction Angle (ϕ)	At-rest Earth Pressure (Ko)	Active Earth Pressure Coefficient (Ka)	Passive Earth Pressure Coefficient (Kp)
OG to 7.0	CL/CH	115	57.6	26(2)	0.56	0.39	2.56
7.0 to 2.0	SP	120	57.6	35	0.43	0.28	3.69
2.0 to -30.0	Sandstone/ Claystone	130	67.6	40	0.36	0.22	4.60

Note: (1) Saturated/unsaturated soil weight is assumed the same.
(2) Drained friction angle is assigned to clayey soil layer for the permanent wall.
(3) Cohesion is zero.

According to Section 5.5.5.6 of Bridge Design Specification (August, 2004), the active lateral earth pressure acting on the wall height H, shall not be less than 0.25 times the effective overdurden pressure at any depth or 0.036 kips/ft of wall height, whichever is greater.

The groundwater can be assumed to be elevation 0.0 feet (average seawater elevation) for the wall design considering geocomposite drainage installed between piles.

Wall Options Considered

Three options have been considered for this project: Caltrans Standard Type 1 wall with top of footing at scour elevation, -6.0 feet, soldier pile wall with deadman or prestressed ground anchor, and closely spaced CIDH pile wall.

Considering expected construction difficulty and significantly high construction cost due to shoring and excavation in the water, existing RSP and bedrock formation, Caltrans Standard Type 1 retaining wall option was excluded in further consideration. The soldier pile wall with ground anchor was also ruled out due to construction difficulty and corrosion issue.

Wall Recommendations

Due to the construction difficulty and associated cost described in previous section, we consider that 2.5 feet diameter CIDH pile wall with center to center spacing of 2.75 feet be the most feasible and economical option. Subsurface soil and rock can provide sufficient lateral support to the wall.

Geocomposite drainage should be placed against soils between the piles and the curved facing attached to the pile wall.

Construction Consideration

Existing RSP rip raps should be expected to be encountered during removal of the upper portion of the existing seawall for construction of curved facing attached to the CIDH pile wall.

Cave-in potential during construction of the pile should be anticipated due to characteristic of sandy soil (SM/SP) encountered during subsurface exploration and high groundwater table (at about elevation 6 feet) encountered at the sites.

Difficult excavation and drilling may be encountered during pile and wall construction due to presence of cobble or boulder, and variation of bedrock elevation.

Sequence of CIDH pile construction can affect the performance and integrity of the piles with center-to-center spacing less than six times pile diameter. Construction of adjacent piles should not be started before sufficient strength of the Portland cement concrete of the previously installed adjacent piles has developed.

If you have any questions or comments, please contact Seungwoon Han at (916) 227-4533.

Seungwoon Han, Ph.D.
Transportation Engineer–Civil
Branch A

Cc: Deh-Jeng Jang, Ph.D, G.E., P.E.
OGDS-1 – (Sacramento)
OGDS-1 (Los Angeles)
GS – (File)

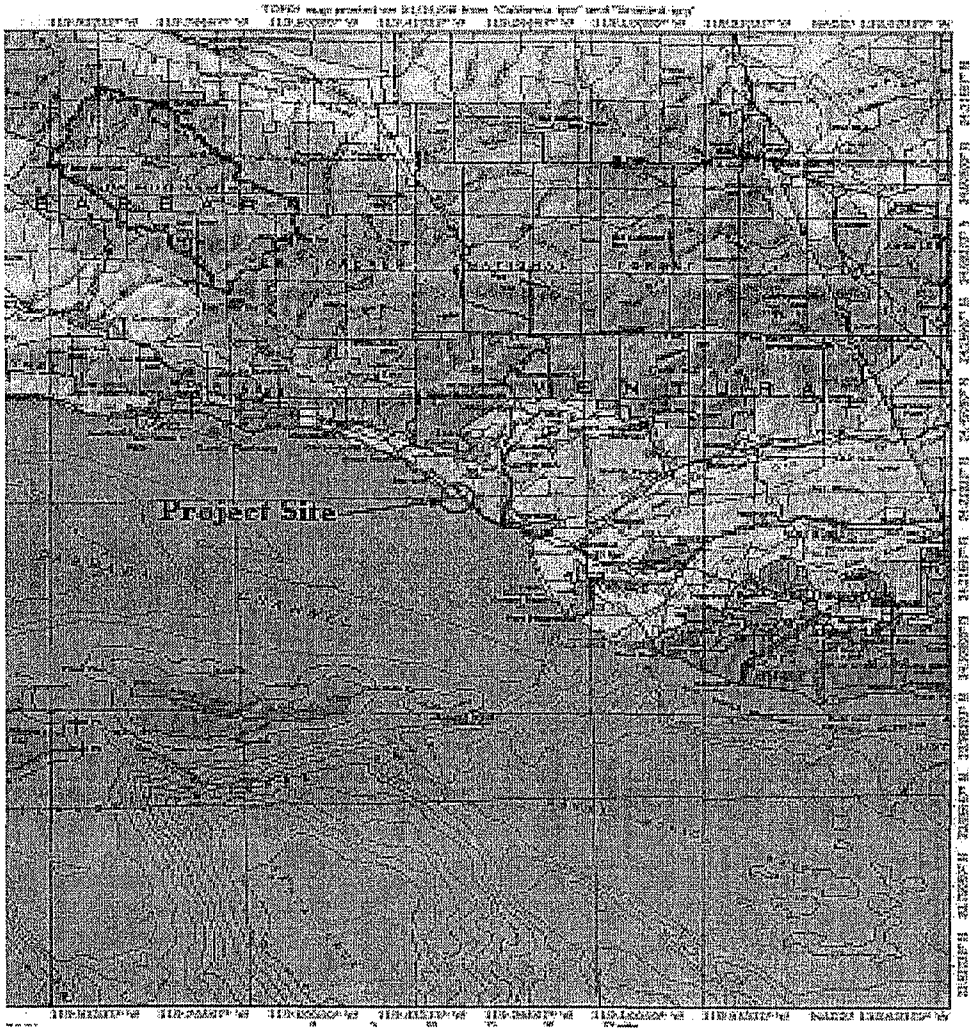


Figure 1. Vicinity Map

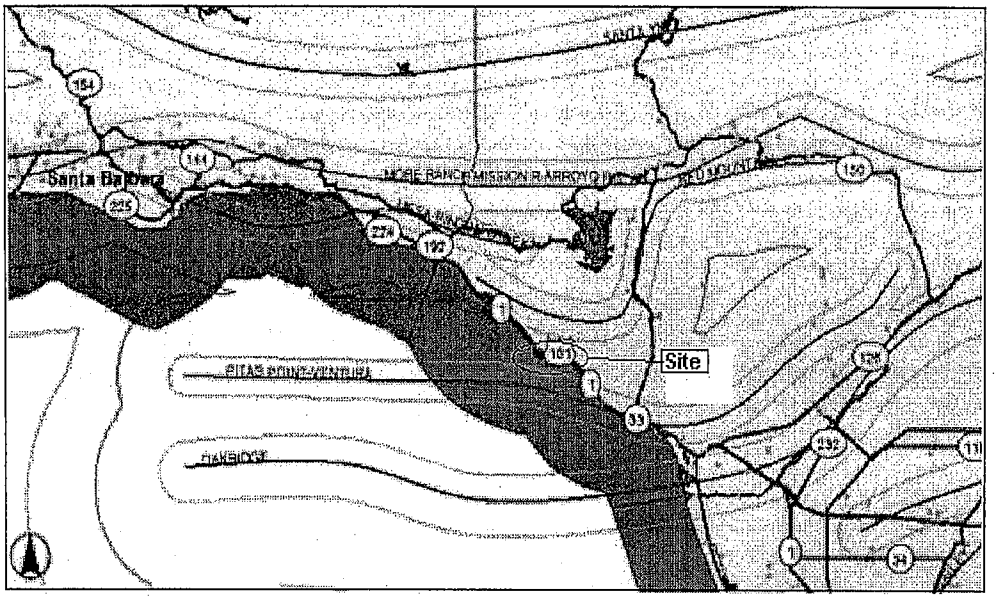


Figure 2. Seismic Hazard Map

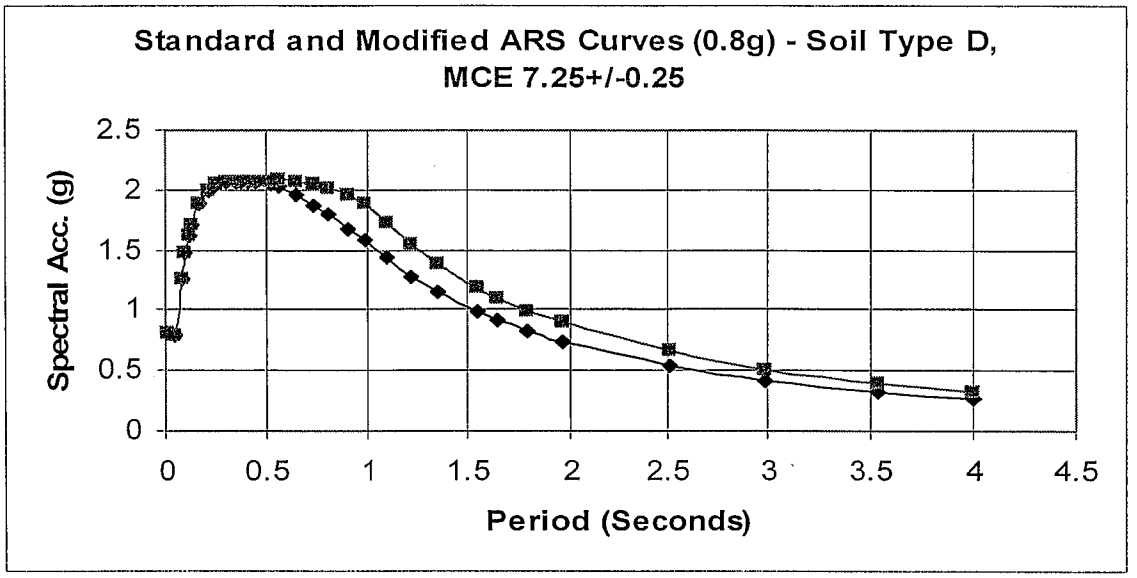


Figure 3. ARS Curve

ARS Curve Data (Peak Bedrock Acceleration 0.8 g; Magnitude 7.5; Type D Soil)

Period (sec)	Acceleration (g)	Period (sec)	Acceleration (g)	Period (sec)	Acceleration (g)
0.01	0.80046	0.5232	2.0698	2.5069	0.65733
0.05	0.80034	0.56	2.0795	2.9837	0.50592
0.0821	1.25589	0.6453	2.0717	3.5328	0.39127
0.1007	1.48091	0.7301	2.0504	4	0.31557
0.1187	1.6176	0.8049	2.0081		
0.136	1.71611	0.9071	1.9528		
0.1739	1.89211	0.9955	1.8896		
0.219	2.00183	1.103	1.7195		
0.262	2.05017	1.2207	1.54107		
0.3033	2.068	1.3524	1.38377		
0.3522	2.07531	1.55	1.18574		
0.3785	2.07589	1.65	1.09906		
0.4159	2.07589	1.7945	0.99634		
0.4583	2.07086	1.9719	0.89362		
0.519231	1.4663	0.807692	1.3110		

CALIFORNIA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL LABORATORY

GL TRACKING NO: 08-102
DIST - EA: 07-232211
Report Date: October 8, 2009
Page: 10

CLASSIFICATION TEST SUMMARY

SAMPLE ID	% FINER THAN																	ATTERBERG LIMITS		AS RECEIVED		Gs
	3"	2 1/2"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200	5μ	1μ	LL	PI	Wpref	Wnat	
R-08-101_S01								100	87	80	65	54	38	20	11	10	10	50	32		32.8	
R-08-101_S04				100	94	92	88	85	78	73	73	70	77	77	70	33	14	38	12		34.2	
R-08-101_S06													100	99	97	49	19	43	20		24.0	
R-08-101_S07								100	89	50	47	51	50	54	73	27	13	33	14		19.7	
R-08-102_S01						100	99	99	98	97	85	59	34	71	62	10	5	33	10		23.6	
R-08-102_S03										100	95	84	74	57	38	10	4		NP		12.5	
R-08-102_S07							100	95	89	25	76	56	38	31	28	8	4		NP		19.5	
R-08-103_S04											100	99	94	75	72	40	22	65	34		25.5	
R-08-103_S06													100	99	98	49	23	64	29		32.4	
R-08-104_S02								100	95	90	89	86	70	21	19	7	3		NP		23.3	
R-08-104_S04									100	99	97	92	84	75	64	30	14	28	11		19.1	
R-08-105_S02																						

Figure 4. Result of Lab Tests

Division of Engineering Services
Structure Design Services
Structure Hydraulics and Hydrology

FINAL HYDRAULIC REPORT

Ventura Seawall

Bridge # 52-139 and #52-140
PM 22.4 and PM 26.7 on SR 101

This document is a supplement to the WRECO report for the Ventura seawalls project. This document summarizes our recommendations in addition to the WRECO Consultant report recommendations.

JOB:
Bridge Replacement for Bridges # 52-139 and #52-140

LOCATION:
07-VEN-1-PM 22.4/26.7

DATE:
October 28, 2009

WRITTEN BY:
Ronald L McGaugh

REVIEWED BY:

General:

This study determined the hydraulic parameters that are necessary for the design of two seawalls on Highway 1 in Ventura County: Bridge numbers 52-139 (PM 22.4, South Seawall) and 52-140 (PM 26.7, North Seawall). These seawalls are located along Highway 1 between Santa Barbara and Ventura. The recommendations discussed below, as well as the analysis performed to arrive at the recommendations, are presented in detail in the report provided by WRECO entitled "Wave Climate and Toe Scour Study for the design of two seawalls Along Highway 1 in Ventura County". This report is signed and stamped October 7 2008

The Report covers the following Items in detail:

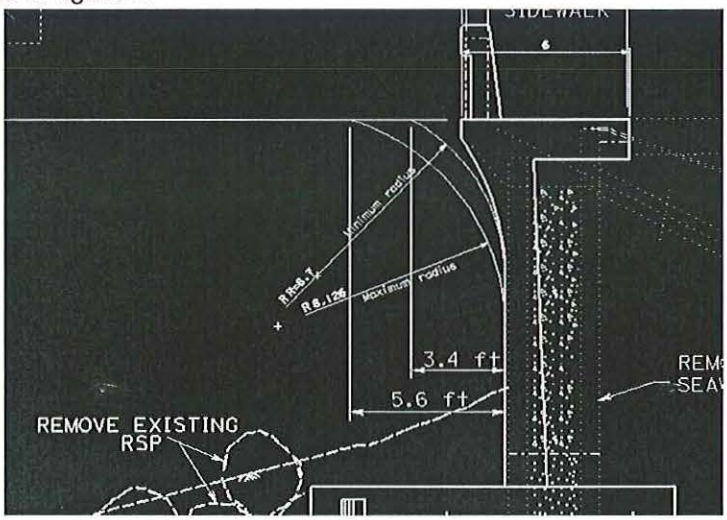
- A seawall height of 16.6 ft NAVD for Br. 52-139 and 17.8 ft for Br. 52-140. The quantity of overtopping flow expected for the existing seawall at its current height during the 100-year event is 9×10^{-4} cfs/ft for Br. 52-139 and 2×10^{-3} cfs/ft for Br. 52- 140.
- Climate studies for tides, wind studies for wave studies, shore topographic and bathymetric survey.
- Constructing a seawall with a curved face would reduce the 100-year overtopping at Br. 52-139 by 57 percent and at Br. 52-140 by 70 percent. A curved face seawall would reduce the overtopping on a daily basis by 90 to 95 percent.
- The minimum expected elevation of the beach in front of the North Seawall in 50 years is -6.2 ft NAVD. Along the beach in front of the South Seawall, the minimum expected elevation is -3.8 ft.
- Flank protection would be useful in order to prevent erosion adjacent to the seawalls. Currently there are boulders approximately 4 to 5 ft in diameter there. These boulders, or similar, would likely be sufficient to prevent significant erosion.
- Rock slope protection or steps in front of the seawall are recommended to reduce scour. At the North Seawall, the height of the toe berm would be 1.3 ft minimum, the top width of the toe berm would be 3.0 ft minimum, and the equivalent cube length (D_n^{50}) would be 0.7 ft minimum. At the South Seawall, the height of the toe berm would be 1.2 ft minimum, the top width would be 2.6 ft minimum, and the D_n^{50} would be 0.7 ft minimum.
- If the groundwater elevation is found to be above the expected beach elevation at the seawalls, under-drains are recommended to relieve the pore water pressure behind the seawall.
- The current drainage scheme, which is several evenly spaced 6 in PVC pipes along the length of the wall, may be followed. However, the pipe size and spacing will depend on acceptable ponding behind the wall. A variety of pipe size and spacing options have been provided.
- All calculations conform to the Coastal Engineering Manual (EM 1110-2-1100).

In addition to the above items our office proposed several recommendations to the WRECO report as summarized below.

For our design we will use a single radius taken from the midway height of the face of the wall as shown in figure 2. The Minimum and maximum radii are shown in figure 2.

It is important that the top of the designed curve be in place for proper wave overtopping avoidance.

Figure 2→



Scour Elevations

For the scour elevation the WRECO Report states:

Elevations based on NAVD 88	North wall Elevation	South wall Elevation
Scour depth@ 100 yr event	-5.7	-5.8
	Use elevation of -6 ft for minimum scour depths for both walls	

Wall elevations and considerations

Elevations based on NAVD 88	North wall	South wall
Existing wall height	15.3 ft	14.1 ft
Maximum anticipated wave	17.2 ft	17.0 ft
Recommended wall height	15.3 ft	15.1
Solid Guard rail or similar	1.9 ft	1.9 ft

General Considerations

Guard rail could be a modified type 43.

A generalized wall could be done as shown in figure 3. This figure does not include any foundational components.

The sand will naturally be cyclic and vary in elevation

Parameters in the WRECO report for toe protection, rock filters, local drainage, and wave force calculations can be applied as needed.

Overtopping with the Parameters described in the WRECO report and this additional document result in very minimal spray, and no danger to Vehicles or pedestrians from overtopping sea waves.

These recommendations are made based on the information and instructions as directed by District 7.

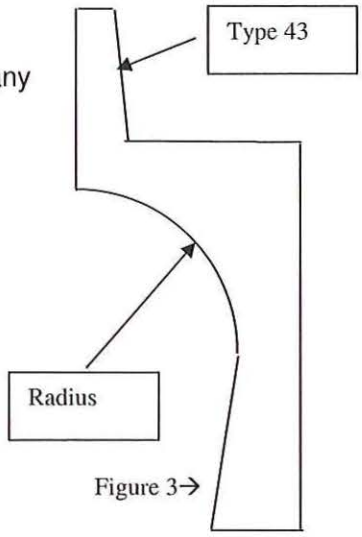


Figure 3→

Modification to these recommendations may be made as applicable

This report has been prepared under my direction as the professional engineer in responsible charge of the work, in accordance with the provisions of the Professional Engineers Act of the State of California.

Ronald L McGaugh
Registered Civil Engineer (Signature)

REGISTERED PROFESSIONAL ENGINEER
RONALD L. McGAUGH
Lic. # C61217
Exp. 06/2011
CIVIL
STATE OF CALIFORNIA

Registration Number

Date :

SITE INVESTIGATION
BRIDGE NOS. 52-139 AND 52-140
ROUTE 1
VENTURA COUNTY, CALIFORNIA
TASK ORDER NO. 16, EA NO. 228201
CONTRACT NO. 07A2211

PREPARED FOR:
State of California
Department of Transportation
District 7, 12th Floor, MS-16
Office of Environmental Engineering and Feasibility Studies
100 South Main Street
Los Angeles, California 90012

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618

February 25, 2010
Project No. 207126016

February 25, 2010
Project No. 207126016

Dr. Ayubur Rahman, P.E.
State of California
Department of Transportation
District 7, 12th Floor, MS-16
Office of Environmental Engineering and Feasibility Studies
100 South Main Street
Los Angeles, California 90012

Subject: Site Investigation
Bridge Nos. 52-139 and 52-140
Route 1
Ventura County, California
Task Order No. 16; EA No. 228201
Contract No. 07A2211

Dear Dr. Rahman:

Ninyo & Moore is pleased to provide five copies of this Site Investigation for the subject Task Order No. 16. If you have any questions regarding this work plan, please contact the undersigned at your convenience.

Respectfully submitted,
NINYO & MOORE

Peter Sims
Senior Staff Environmental Geologist

Nancy J. Anglin, R.E.A.
Senior Engineer

Walter R. Crone, P.G. 4350, R.E.A.
Principal Environmental Geologist

PROFESSIONAL GEOLOGIST
WALTER R. CRONE
NO. 4350
EXP 09/11
STATE OF CALIFORNIA

PDS/NA/glw/sc

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Appendix A – Field and QA/QC Procedures
Appendix B – Boring Logs
Appendix C – Laboratory Reports and Chains-of-Custody
Appendix D – Disposal Documentation
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1. INTRODUCTION

Work under this Task Order (TO) consisted of an aerially deposited lead (ADL) survey and a site investigation (SI) to evaluate the potential existence of soil and groundwater contamination at Bridge Nos. 52-139 (Location 1) and 52-140 (Location 2) along Route 1 in Ventura County (site, Figure 1).

2. PROPERTY BACKGROUND RESEARCH

The State of California Department of Transportation (Department) is currently preparing plans, specifications, and estimates (PS&E) to remove two seawalls, one at Location 1 and one at Location 2, replace them with reinforced concrete retaining walls on piles, and construct roadway structural sections near Solimar Beach along Route 1 in Ventura County, California.

Based on layout plans, general plans for the seawall, and typical cross sections provided by the Department, we understand the following construction activities may involve hazardous waste issues: 1) the unpaved roadway excavation to about two feet and 2) structure excavation for retaining wall on piles to about 40 feet below ground surface (bgs).

Based on information provided by the Department, an ADL survey and heavy metals and groundwater SI conducted adjacent to this project site showed:

- The total lead concentrations range from not detected to 410 milligrams per kilogram (mg/kg), and soluble lead concentrations (using citric acid as the extractant) range from not detected to 35 milligrams per liter (mg/l). The depths of contamination are from surface to 2.0 feet bgs, with the highest concentrations of contamination at depths from surface to 1.0 foot bgs.

- Naturally occurring petroleum hydrocarbon contamination was discovered in one geotechnical boring; therefore, there is a potential for encountering soil containing naturally occurring petroleum hydrocarbons during site excavations for piles.

- The depth to encountered groundwater ranged from approximately 20 to 40 feet bgs and the depth of proposed piles are approximately 30 to 40 feet bgs. Therefore, groundwater may be encountered during construction and excavation activities. If groundwater is encountered, a National Pollutant Discharge Elimination System (NPDES) permit will be required for construction dewatering.

3. GEOLOGY

The site is in the western portion of the Transverse Ranges Geomorphic Province. The site is surrounded by the Santa Ynez Mountains to the northwest, the Oak Ridge Mountains to the north, the Santa Susana Mountains to the northeast, the Santa Monica Mountains to the southeast, and the Pacific Ocean to the west and south.

The geology of the site is characterized by Quaternary age beach sand deposits and alluvium consisting of unconsolidated floodplain deposits of silt, sand, and gravel. The beach sand deposits are mapped as underlain in the site vicinity by alluvium. Relatively small outcrops of bedrock consisting of sandstone of the Pico Formation are shown on regional geologic maps (Dibblee, 1988). The thickness of the beach sand and alluvium is uncertain.

Soil encountered during drilling activities was primarily layers of brown to gray sand, silty sand, and sandy silt.

4. HYDROGEOLOGY

The site is in the Pitas Point Hydrologic Unit. The Pitas Point Hydrologic Unit extends from Rincon Point to the Ventura River. Numerous small canyons drain the southern slopes of the coastal hills in this area (California Regional Water Quality Control Board [RWQCB], 1994). The site is north of two natural drainages, Calleguas Creek southwest of the site, and Conejo Creek east of the site. Lake Casitas is approximately 3.5 miles northeast of the site. The site is bordered to the west and south by the Pacific Ocean. Surface water at the site flows via sheet flow to the curb and gutter system on Route 1.

A check of the State Water Resources Control Board (SWRCB) GeoTracker™ website did not reveal groundwater information in the vicinity of the site. During soil boring activities, groundwater was encountered between 9.5 and 14 feet bgs. The regional groundwater flow direction is interpreted to follow surface topography towards the southwest.

5. OBJECTIVE OF THE SITE INVESTIGATION

The objectives of this ADL and SI were to evaluate the potential existence of ADL in soil and naturally occurring total petroleum hydrocarbons (TPHs) in soil at the site and to obtain groundwater analytical data to allow for application for an NPDES permit for construction dewatering for the site. The Department will be replacing two seawalls with concrete reinforced retaining walls. The ADL and SI evaluated the presence of possible contaminants that may exceed the acceptable regulatory limits or compromise the safety of the construction workers on site. Project depths did not exceed 20 feet bgs. The ADL and SI identified the concentration of contaminants in the subsurface so that worker safety can be addressed during construction and handling and/or disposal of excess soil can be evaluated. The information obtained will be used to help the Project Engineer estimate the volume of soil impacted, and the cost for remedial activities, if any.

6. SCOPE OF WORK

The scope of work is described in the following sections.

6.1. Health and Safety Plan

Ninyo & Moore developed a site-specific Health and Safety Plan (HSP) based on the Contract No. 07A2211. This HSP was reviewed and approved by a certified industrial hygienist (CIH) and has been provided to the Department as a separate document. A four-gas meter was on site for health and safety monitoring.

6.2. Site Reconnaissance and Geophysical Survey

The boring and well boring locations are presented on Figures 2 and 3. A site reconnaissance was conducted on January 20, 2010 and Underground Service Alert (USA) was notified. The boring locations were described in detail to USA when they were notified at least 48 hours prior to conducting the soil sampling. USA marked known public utilities that cross the site or are in the vicinity of the boring locations. The boring locations were evaluated for subsurface utilities by geophysical survey methods on January 26, 2010.

6.3. ADL Soil Sampling

Fourteen soil borings were advanced to 2 feet bgs for the ADL survey at the two locations. Ten soil borings were advanced at Location 1 and four soil borings were advanced at Location 2. The borings were advanced and sampled using hand auger methods. Three soil samples were collected from each boring at surface, 1, and 2 feet bgs (four from soil borings where duplicate samples were collected). Refusal was not encountered while advancing the ADL soil borings. Soil sampling procedures are included in Appendix A.

6.4. SI Soil Sampling

Soil boring 1087-201 was advanced to 20 feet bgs and soil samples were collected at 0.5 feet, 10 feet, and 20 feet bgs. Six soil borings were advanced to 15 feet bgs and soil samples were collected at 0.5 feet, 5 feet, 10 feet, and 15 feet bgs. Five soil borings were advanced at Location 1 and two soil borings were advanced at Location 2. The borings were drilled using a hand auger to approximately 5 feet bgs and hollow stem auger methods for depths greater than 5 feet bgs. Soil sampling procedures are included in Appendix A. Boring logs are included in Appendix B.

6.5. Groundwater Sampling

One groundwater sample was collected from borings 201 and 203 (one from each location). A duplicate groundwater sample was collected from boring 201. Borings were extended approximately 5 feet below the encountered water table, and samples were collected from a temporary well. The groundwater samples collected from the borings were tested for the constituents required by the RWQCB for an NPDES construction dewatering permit. Groundwater sampling procedures are included in Appendix A.

6.6. Borehole Restoration and Waste Material

Soil cuttings from the ADL boreholes were placed back in the boreholes. Decontamination water was containerized in United States Department of Transportation (DOT) approved 55-gallon drums in a secure location approved by the Department. SI boreholes had the

temporary wells removed and the borehole locations were backfilled with hydrated bentonite. The surface was restored to existing grade with concrete. Waste materials were containerized in DOT-approved 55-gallon drums in a secure location approved by the Department.

6.7. Sample Handling

ADL soil samples were collected in glass jars. The SI soil samples from surface were collected using a decontaminated hand auger and the remaining soil samples were collected in stainless steel or brass sleeves using the hollow stem auger drill rig. The sleeves were removed from the split spoon sampler and capped with Teflon® sheeting and end caps. Groundwater samples were collected in laboratory provided containers with the appropriate preservative for the proposed analyses.

Sample containers were labeled with boring number and unique Department ID number. Sampling information, time, date of sample collection, sample matrix type, turn-around time, container type, requested analysis, and other information was recorded on the chain-of-custody (COC). Samples were stored in an ice chest for transport to an Environmental Laboratory Accredited Program (ELAP) certified laboratory within 24 hours of collection.

6.8. Analytical Program for Soil Samples

The soil samples collected for the ADL were analyzed for total lead by the United States Environmental Protection Agency (EPA) Method 6010B and run on a 3-day turn around time (TAT). The soil samples collected for the SI were analyzed for TPH extended range (TPHextend) by the modified EPA Method 8015B and run on a 5-day TAT. The samples collected from the drums for waste characterization purposes were analyzed for total lead, TPHs, and volatile organic compounds (VOCs) by EPA Methods 6010B, 8015B, and 8260B, respectively, on 24-hour TAT.

Soil and groundwater samples were chemically analyzed by Advanced Technology Laboratories of Signal Hill, California, a state-certified laboratory. The analyses of the samples

were performed within the required holding times. Soil samples analyzed for total lead using EPA Method 6010B were homogenized by the laboratory and analyzed based on the following criteria (with the authorization of the Department TO Manager): when total lead was greater than 10 mg/kg, the laboratory proceeded with soluble lead test for the Soluble Threshold Limit Concentration (STLC), by California Waste Extraction Test (WET) using citric acid as the extractant. When total lead was greater than 10 mg/kg, the laboratory proceeded with soluble lead test using Toxicity Characteristic Leaching Potential (TCLP), by EPA Method 1311. Ten percent or six of the ADL soil samples were tested for Title 22 Metals by EPA Method 6000/7000 series. These samples were obtained from the homogenized samples exhibiting the highest total lead concentrations. Five soil samples were tested for pH using EPA Method 9045. The samples tested for pH were selected at random. The laboratory reports are presented in Appendix C.

6.9. Analytical Program for Groundwater Samples

Groundwater samples were analyzed for the constituents required by the RWQCB for a NPDES construction dewatering permit. The purpose of a dewatering permit is for approval to dispose by surface discharge of the excess construction water generated during modification of the seawalls. The laboratory selected to analyze the groundwater samples was capable of meeting the RWQCB's reporting limits. The groundwater samples were run on a 5-day TAT. Both pre- and post-filtered samples were analyzed by EPA Method 6010B. The laboratory report is presented in Appendix C.

6.10. Quality Assurance/Quality Control (QA/QC)

QA/QC procedures were performed in general accordance with Contract No. 07A2211. Field procedures including decontamination of field sampling equipment used to ensure quality of samples during field sampling. The laboratory analyzed one method blank for every 10 samples, batch samples or type of matrix, whichever is more frequent. One sample was analyzed in duplicate at the same frequency. The laboratory analyzed one spiked sample

at the same frequency, with the spike made at ten times the detection limit or at the analyte level. A summary of the QA/QC findings is provided in Section 8.

To determine analyte method detection limits (MDLs), background noise for each of the detectors is monitored and recorded to identify any temporal changes in chromatographic conditions. For a selected method, practical quantitation limits (PQLs) are defined by the precision of a detector's response to an analyte over the range of mass for which the detector is calibrated. Statistical methods are employed to determine detection limits. The MDLs are defined as the minimum concentrations that can be measured and reported (not only be detected) above background with 99 percent confidence. For a selected method, PQL or reported detection limits are determined by the MDL. PQL should be greater or at least equal to the MDL. A laboratory should perform a MDL study annually, or after major changes of the method and/or the gas chromatography (GC) and detectors.

Equipment blanks were collected at a frequency of one per set of decontaminated sampling equipment. Equipment blanks were obtained by passing distilled water through or over the decontaminated sampling devices and collecting the water in laboratory containers. Equipment blanks were analyzed for contaminants of concern.

6.11. Decontamination

Sampling equipment was decontaminated between each sample collected by immersing the sampler in a solution of non-phosphate detergent and tap water wash. The equipment was scrubbed with a brush (if necessary) to remove particulate matter adhering to the sampling equipment. The sampling equipment was then rinsed in tap water, rinsed again in deionized water, and air dried. Wash and rinsate water was transferred to a drum for storage and disposal. An equipment blank was collected from each set of decontaminated sampling equipment. The decontamination water was contained and disposed off site at a state-approved facility.

6.12. Investigative Derived Wastes (IDW)

Discarded equipment/items, such as gloves and pails, were disposed of accordingly. IDW is not considered hazardous and can be disposed at a permitted disposal facility. Discarded equipment which could still be re-used was rendered inoperable prior to its disposal in the refuse facility. Drums containing drill cuttings and decontamination water were transported to Crosby and Overton in Long Beach, California for disposal. A copy of the waste manifest is included in Appendix D.

6.13. GPS Data Collection

Borings were located and marked in the field with a global positioning satellite (GPS) device using the Department's GPS NAD83 datum. Investigative data for each boring, sample, and test performed was entered into an electronic Microsoft Access 2000 database file. Borings were identified by a unique identification number system. Analytical data for each boring was included in the database file. A copy of the database file is included in Appendix E.

7. INVESTIGATIVE RESULTS

Ninyo & Moore has prepared this SI report for the site including the ADL. The combined ADL and SI report conforms to the reporting requirements set forth in the Contract No. 07A2211 and the TO. The report includes the results of the laboratory tests for soil and groundwater samples with recommended alternatives for handling or disposing the soil, if needed. Deviations in actual work conducted from the detailed work plan are noted in the report.

7.1. ADL Soil Sampling Investigative results

The results of the field work, laboratory results, statistical evaluation and data evaluation are presented below.

7.1.1. Summary of Field Work

Fourteen soil borings were advanced at the site by hand-auger methods. Samples were collected at depths of surface, 1, and 2 feet bgs or refusal from each boring location.

7.1.2. Laboratory Results

Analytical results are shown in Tables 1 and 2. Lead results are also shown in Layouts 1 through 4. Laboratory results are included in Appendix C. Forty-six soil samples (including duplicates) collected were analyzed for total lead. Of those samples, no samples (including duplicates) contained total lead at concentrations greater than or equal to 50 mg/kg. No samples collected contained concentrations of lead that exceeded the California total threshold limit concentration (TTLC) for lead (1,000 mg/kg). In addition, none of the soil samples collected exceeded the 3,397-mg/kg limit provided in the Department of Toxic Substances Control (DTSC) variance dated June 30, 2009.

Seven samples were further analyzed for soluble lead using EPA Method 7420. Because no soil samples analyzed for soluble lead contained concentrations greater than 5 mg/l, soil samples were not analyzed for soluble lead using the dionization waste extraction test (DI-WET) Method in general accordance with EPA Method 7420.

In accordance with the Department requirements, seven samples were analyzed for soluble lead by TCLP in general accordance with EPA Method 1311/7420. No samples (including duplicates) contained detectable soluble lead by TCLP. Analysis for TCLP is used to evaluate whether soils should be classified as hazardous for disposal purposes under Federal law.

In accordance with the TO, five of the total samples per group were tested for soil pH using EPA Method 9045C. The results range from pH 7.7 to 8.0.

The analytical results for Title 22 Metals indicated no analytes exceeding 10 times their respective STLC value or their respective TTLC value and are considered non-hazardous with respect to metals. Please refer to Table 2.

7.1.3. Statistical Evaluation

Because no samples contained hazardous lead concentrations, a statistical evaluation of the laboratory results was not performed.

7.1.4. Data Evaluation

Based on the analytical results, the soil is considered non-hazardous with respect to lead and the other Title 22 Metals. The results of pH testing indicate pH values ranged from 7.7 to 8.0. These levels would not be considered hazardous and are above the variance minimum level of 5. Based on the metals and pH results these soils would be considered non-hazardous for purposes of disposal. Please refer to Tables 1 and 2.

7.2. SI Soil Sampling Investigative results

The results of the field work and laboratory results are presented below.

7.2.1. Summary of Field Work

Soil boring 1087-201 was advanced to 20 feet bgs and soil samples were collected at 0.5 feet, 10 feet, and 20 feet bgs. Six soil borings were advanced to 15 feet bgs and soil samples were collected at 0.5 feet, 5 feet, 10 feet, and 15 feet bgs. Five soil borings were advanced at Location 1 and two soil borings were advanced at Location 2. The borings were drilled using a hand auger to approximately 5 feet bgs and hollow stem auger methods for depths greater than 5 feet bgs.

7.2.2. Laboratory Results

Table 3 contains each of the soil sample results for TPHcc as well as the equipment rinseate sample results. Laboratory reports are included as Appendix C.

Thirty-one soil samples including duplicates were analyzed for TPHcc. Reported concentrations of TPH C4-C12 were below the laboratory detection limit of 1.0 mg/kg. Reported concentrations of TPH C13-C22 ranged from less than the laboratory detection limit of 1.0 mg/kg to 220 mg/kg. Reported concentrations of TPH C23-C32 ranged

from less than the laboratory detection limit of 1.0 mg/kg to 540 mg/kg. Reported concentrations of TPH >C32 ranged from less than the laboratory detection limit of 1.0 mg/kg to 660 mg/kg. The RWQCB maximum soil screening level (SSL) for the protection of groundwater of 100 mg/kg for TPH C13-C22 was exceeded by soil sample 1087-202-0.5 with a reported concentration of 220 mg/kg.

7.2.3. Data Evaluation

Soil encountered during soil boring activities included sand, silty sand, and sandy silt. Based on the analytical results, soil in the vicinity of sample 1087-202-0.5 exceeds the RWQCB soil screening level (SSL) for the protection of groundwater. The remaining soil, if excess, at the site would be considered a petroleum-contaminated non-hazardous waste. It is likely that the surface contamination is the result of a possible mixture of naturally occurring petroleum hydrocarbons and petroleum hydrocarbons resulting from vehicle oil leaks or camping fuel spills, etc. It is likely that the deeper contamination is the result of naturally occurring petroleum hydrocarbons at a low level.

7.3. Groundwater Sampling Investigative results

The results of the field work and laboratory results are presented below.

7.3.1. Summary of Field Work

Groundwater samples were collected from borings 201 and 203. A duplicate groundwater sample was collected from boring 201. Groundwater was encountered between 10 and 15 feet bgs. Borings were extended approximately 5 feet below the encountered water table. Samples were collected from a temporary well installed in each borehole. The groundwater samples collected from the borings were tested for the constituents required by the RWQCB for an NPDES construction dewatering permit.

7.3.2. Laboratory Results

Each of the water samples (1087-201-W, 1087-201-WD, 1087-203-W, and 1087-ERB-W) was analyzed for the constituents outlined in the NPDES Application

Supplemental Requirements. In addition, water samples 1087-201-W, 1087-201-WD, and 1087-203-W were analyzed for post-filtered metals by EPA Method 6010B. Groundwater sample 1087-201-W exceeded the NPDES Application Supplemental Requirements Screening Levels (ASRSL) for the pre-filtered metals cadmium, copper, lead, nickel, and zinc and the post-filtered metals copper and nickel. Groundwater sample 1087-201-WD exceeded the NPDES ASRSLs for the pre-filtered metals arsenic, cadmium, copper, mercury, nickel, silver, and zinc and the post-filtered metals copper and nickel (mercury was not analyzed). Groundwater sample 1087-203-W exceeded the NPDES ASRSLs for the pre-filtered metals arsenic, cadmium, copper, lead, mercury, nickel, and zinc and the post-filtered metals copper and nickel (mercury was not analyzed). The sample analytical test results are shown on Table 4. As presented on Table 4, some of the analytes have watershed specific limits which should be researched when applying for an NPDES permit.

7.3.3. Data Evaluation

Groundwater was encountered between 10 and 15 feet bgs. Based on the analytical results, it is likely that an NPDES construction dewatering permit will require treatment of the excess water prior to discharge.

8. QA/QC SUMMARY

The findings of the field QA/QC and laboratory QA/QC are presented below.

8.1. Field Quality Assurance/QA/QC

In order to reduce the likelihood of cross-contamination, sampling equipment was decontaminated between borings. Equipment was washed in a solution of non-phosphate detergent, rinsed in clear water, rinsed in distilled water, and dried. To evaluate the effectiveness of the decontamination procedures, one equipment rinseate blank was collected and analyzed for contaminants of concern per set of decontaminated sampling equipment. The samples were collected by pouring deionized water through/over decontaminated equipment

and collecting the water in laboratory-supplied containers. Three equipment blanks were collected. The equipment blank collected for the groundwater sampling on January 26, 2010 contained a toluene concentration of 0.81 micrograms per liter (µg/l). Two of the three water samples collected that day contained toluene concentrations of 0.53 and 0.25J µg/l. These results may be the result of contamination by the equipment decontamination water or airborne vehicle exhaust. Contaminants of concern were not detected in the other equipment blanks analyzed, indicating decontamination was effective and cross-contamination did not occur in the collection of soil samples.

8.2. Laboratory QA/QC

ATL conducted laboratory QA/QC in accordance with Contract No. 07A2211; QA/QC procedures included analyses of method blanks, duplicate samples, and spiked samples. These procedures are included in the analytical reports presented in Appendix A of this report. The laboratory QA/QC reports contained a relatively small number of data qualifiers. These qualifiers do not impact the quality of data reported such that the conclusions and recommendations of this report would change.

9. DEVIATIONS FROM THE DETAILED WORK PLAN

The detailed work plan called for sampling the hollow stem auger borings at 0.5 feet, 10 feet, 20 feet, 30 feet, and 40 feet bgs. However, groundwater was encountered at approximately 9.5 to 14 feet bgs. Soil samples were collected at 0.5, 10, and 20 feet bgs from soil boring 1087-201 and at 0.5, 5, 10, and 15 feet bgs from soil borings 1087-202, 1087-203, 1087-204, 1087-205, 1087-206, and 1087-207.

In the field, the Department requested that groundwater samples 1087-201-W, 1087-201-WD, and 1087-203-W be filtered by the lab and then analyzed for total dissolved metals. Pre- and post-filtered results are reported in Table 4.

10. CONCLUSIONS

Based on the results of this investigation, the following conclusions are provided.

10.1. ADL Conclusions

Based on the analytical results, the soil is considered non-hazardous with respect to lead and pH. Assuming the soil has not been disturbed since creation of Route 1 in the site vicinity, it would be expected to have total lead concentrations decreasing with depth.

The analytical results for Title 22 Metals indicated no analytes exceeding 10 times their respective STLC value or their respective TTLC value, and are considered non-hazardous, with respect to metals.

10.2. SI Soil Conclusions

The RWQCB SSL of 100 mg/kg for TPH C13-C22 was exceeded by soil sample 1087-202-0.5 with a reported concentration of 220 mg/kg. The analytical results for other samples for TPH indicated no analytes over applicable screening levels (less than the SSLs for samples collected from less than 50 feet above groundwater). It is likely that the surface contamination is the result of a possible mixture of naturally occurring petroleum hydrocarbons and petroleum hydrocarbons resulting from vehicle oil leaks or camping fuel spills, etc. It is likely that the deeper contamination is the result of naturally occurring petroleum hydrocarbons at a low level.

10.3. Groundwater Conclusions

The water samples have similar chemical properties. Both the groundwater samples contain some metals exceeding the screening levels.

Based on the results of the analytical testing, the groundwater will need to be treated prior to discharge to comply with the NPDES discharge limits.

11. RECOMMENDATIONS

Personnel performing subsurface work, including geotechnical investigations, utility installations, or other construction, should be provided with the analytical data from this SI so that they can be used in developing an applicable health and safety program.

Based on the above conclusions, the following recommendations are provided.

11.1. ADL Recommendations

The soil is non-hazardous with respect to lead, pH, and other Title-22 Metals. No reuse or disposal restrictions apply with regard to lead, pH, and other Title-22 Metals.

11.2. SI Soil Recommendations

Soil in the vicinity of sample 1087-202-0.5 should be removed as a petroleum contaminated non-hazardous waste. Any excess soil should be removed as petroleum contaminated non-hazardous waste for disposal. The Department should negotiate with the RWQCB to be allowed to reuse soil containing TPHs at levels below the SSLs on site.

11.3. Groundwater Recommendations

Analytical data from the water samples should be used by the Department when applying for an NPDES permit. These results should be provided to the Department's groundwater treatment contractor for use in treatment design. The groundwater will need to be treated for metals before discharge.

12. HEALTH EFFECTS OF LEAD

Concentrations of lead in soil at the site represent a potential threat to the health of site workers performing earthwork activities.

Lead in its element form is a heavy, ductile, soft, gray metal. The permissible exposure limit (PEL) for lead is 0.05 milligrams per cubic meter (mg/m^3) in air based on an eight-hour time-

weighted average (TWA); Immediately Dangerous to Life and Health (IDLH) exposure limit is 100 mg/m^3 as established by the National Institute of Occupational Safety and Health (NIOSH). Exposure may produce several symptoms including weakness, eye irritation, facial pallor, pale eyes, lassitude, insomnia, anemia, tremors, malnutrition, constipation, paralysis of the wrists and ankles, abdominal pain, colic, nephropathy, encephalopathy, gingival lead line, hypertension, anorexia, and weight loss. Target organs are the central nervous system, kidneys, eyes, blood, gingival tissue, and the gastrointestinal tract.

Because of the potential hazard from exposure to lead-contaminated soil, a lead HSP should be prepared by a Certified Industrial Hygienist (CIH). In addition, all site workers (earthwork) should have completed a training program meeting the requirements of 29 Code of Federal Regulations (CFR) 1910.120 and 8 California Code of Regulations (CCR) 1532.1. The plan developed by the CIH should include a hazard analysis, dust control measures, air monitoring, signage, work practices, emergency response plans, personal protective equipment, decontamination, and documentation.

13. REFERENCES

California Regional Water Quality Control Board, Water Quality Control Plan-Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties, June 13.

California Regional Water Quality Control Board, Los Angeles and Ventura Counties, Region 4, 1996, Interim Site Assessment & Cleanup Guidebook, May.

Department of Toxic Substance Control (DTSC), 2009, Variance (V69HQSCD006), dated June 30.

Dibblee, Thomas W., 1988, Geologic Map of the Ventura and Pitas Point Quadrangles, Ventura County, California, December.

Geotracker, State Water Control Resources Board database, http://geotracker.swrcb.ca.gov/, 2010

TABLE 1 – SOIL SAMPLE ANALYTICAL RESULTS – AERIALLY DEPOSITED LEAD, pH, AND GPS COORDINATES

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH	Latitude	Longitude
Location 1									
1087-105-0.5	0.5	1/26/2010	6.4					6153009.06312	1937197.20646
1087-105-1	1	1/26/2010	ND<5.0						
1087-105-2	2	1/26/2010	ND<5.0				7.7		
1087-106-0.5	0.5	1/26/2010	6.6					6153188.99856	1937016.82381
1087-106-1	1	1/26/2010	ND<5.0						
1087-106-2	2	1/26/2010	ND<5.0						
1087-107-0.5	0.5	1/26/2010	20	0.72		ND<0.25		6153361.17103	1936838.41999
1087-107-0.5D	0.5	1/26/2010	47	0.89		ND<0.25			
1087-107-1	1	1/26/2010	6.4						
1087-107-2	2	1/26/2010	ND<5.0						
1087-108-0.5	0.5	1/26/2010	ND<5.0				7.9	6153445.67529	1936757.51583
1087-108-1	1	1/26/2010	5.4						
1087-108-2	2	1/26/2010	ND<5.0						
1087-109-0.5	0.5	1/26/2010	ND<5.0					6153514.93506	1936690.35474
1087-109-1	1	1/26/2010	ND<5.0						
1087-109-1D	1	1/26/2010	ND<5.0						
1087-109-2	2.0	1/26/2010	ND<5.0						
1087-110-0.5	0.5	1/26/2010	13	0.85		ND<0.25		6153600.95448	1936602.88552
1087-110-1	1.0	1/26/2010	ND<5.0						
1087-110-2	2.0	1/26/2010	ND<5.0						
1087-111-0.5	0.5	1/26/2010	23	0.72		ND<0.25		6153688.55890	1936511.98504
1087-111-1	1.0	1/26/2010	ND<5.0				8.0		
1087-111-2	2.0	1/26/2010	5.1						
1087-111-2D	2.0	1/26/2010	ND<5.0						
1087-112-0.5	0.5	1/26/2010	5.8					6153807.48524	1936395.86065
1087-112-1	1.0	1/26/2010	ND<5.0						
1087-112-2	2.0	1/26/2010	5.8						
1087-113-0.5	0.5	1/26/2010	5.9					6153938.22749	1936259.56998
1087-113-1	1.0	1/26/2010	ND<5.0						
1087-113-1D	1.0	1/26/2010	ND<5.0						
1087-113-2	2.0	1/26/2010	ND<5.0						
1087-114-0.5	0.5	1/26/2010	12	ND<0.25		0.30	7.8	6154108.78296	1936086.41351
1087-114-1	1.0	1/26/2010	5.2						
1087-114-2	2.0	1/26/2010	ND<5.0						
Maximum			47	0.89	--	0.30	8.0		
Average			6.4	0.8	--	0.16	7.9		
Minimum			ND<5.0	ND<0.25	--	ND<0.25	7.7		
Regulatory Limits			1411(1)	5(2)	0.5(3)	5(4)	5(5)		

TABLE 1 – SOIL SAMPLE ANALYTICAL RESULTS – AERIALLY DEPOSITED LEAD, pH, AND GPS COORDINATES

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH	Latitude	Longitude
Location 2									
1087-101-0.5	0.5	1/26/2010	ND<5.0					6138019.14520	1946531.01181
1087-101-1	1.0	1/26/2010	6.1				7.8		
1087-101-2	2.0	1/26/2010	5.1						
1087-102-0.5	0.5	1/26/2010	ND<5.0					6138143.20951	1946440.10442
1087-102-1	1.0	1/26/2010	ND<5.0						
1087-102-2	2.0	1/26/2010	ND<5.0						
1087-103-0.5	0.5	1/26/2010	16	2.0		ND<0.25		6138265.98010	1946347.56621
1087-103-1	1.0	1/26/2010	5.8						
1087-103-2	2.0	1/26/2010	6.6						
1087-103-2D	2.0	1/26/2010	5.6						
1087-104-0.5	0.5	1/26/2010	11	1.1		ND<0.25		6138386.62566	1946250.93596
1087-104-1	1.0	1/26/2010	ND<5.0						
1087-104-2	2.0	1/26/2010	ND<5.0						
Maximum			16	2.0	--	1.2	7.8		
Average			5.5	1.6	--	--	--		
Minimum			ND<5.0	1.1	--	ND<0.25	7.8		
Regulatory Limits			1411(1)	5(2)	0.5(3)	5(4)	5(5)		
Decontamination Water (mg/l)									
1087-ERB-5		1/26/10	ND<0.25						

Notes:
mg/kg – milligrams per kilogram
mg/l – milligrams per liter
TTLC – total lead for comparison to the Total Threshold Limit Concentration
WET – Waste Extraction Test
WET-citric – soluble lead by WET using citric acid for comparison to the Soluble Threshold Limit Concentration
WET-DI – soluble lead by WET using deionized water for comparison to the Soluble Threshold Limit Concentration
TCLP – soluble lead by the Toxicity Characteristic Leaching Procedure
ND − not detected above reporting limits presented in Appendix A
1 − Limit specified in addendum to Variance issued by the Department of Toxic Substance Control to Caltrans (DTSC) Variance, September 22, 2000; Addendum, December 2002; Addendum June 2008)
2 − STLC for California Hazardous Waste (California Code of Regulations [CCR] Title 22, Section 66261.24)
3 − Limit Specified by DTSC Variance
4 − Maximum concentration for the TCLP of Resource, Conservation, and Recovery Act (RCRA) hazardous waste (CCR Title 22, Section 66216.24)
5 − Minimum value specified by DTSC variance

TABLE 2 – SOIL SAMPLE ANALYTICAL RESULTS – TITLE 22 METALS

Sample	Sample Date	Metals (mg/kg)															
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Mercury*	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Location 1																	
1087-107-0.5	1/26/2010	ND<2.0	ND<1.0	43	ND<1.0	ND<1.0	7.6	1.9	4.8	ND<0.10	ND<1.0	9.8	ND<1.0	ND<1.0	ND<1.0	10	14
1087-107-0.5D	1/26/2010	ND<2.0	2.2	86	ND<1.0	ND<1.0	14	3.5	9.6	ND<0.10	ND<1.0	18	ND<1.0	ND<1.0	ND<1.0	19	25
1087-110-0.5	1/26/2010	ND<2.0	1.5	51	ND<1.0	ND<1.0	11	3.6	21	0.13	ND<1.0	12	ND<1.0	ND<1.0	ND<1.0	17	22
1087-111-0.5	1/26/2010	ND<2.0	3.6	90	ND<1.0	ND<1.0	16	4.2	12	ND<0.10	ND<1.0	26	ND<1.0	ND<1.0	ND<1.0	20	31
Location 2																	
1087-103.0.5	1/26/2010	ND<2.0	2.0	55	ND<1.0	ND<1.0	11	2.3	13	ND<0.10	ND<1.0	9.1	ND<1.0	ND<1.0	ND<1.0	17	36
1087-104-0.5	1/26/2010	ND<2.0	2.2	82	ND<1.0	ND<1.0	12	3.1	11	ND<0.10	ND<1.0	16	ND<1.0	ND<1.0	ND<1.0	20	25
TTLC (mg/kg)		500	500	10,000	75	100	2,500	8,000	2,500	20	3,500	2,000	100	500	700	2,400	5,000
10 x STLC (mg/l)		150	50	1,000	7.5	10	50	800	250	2.0	3,500	200	10	50	70	240	2,500

Notes:
mg/kg – milligrams per kilogram
ND<1.0 – not detected above the Practical Quantitation Limit
Samples were analyzed using United States Environmental Protection Agency (US EPA) Test Method 6010B.
*Mercury was analyzed using US EPA Test Method 7471A.

TABLE 3 – SOIL SAMPLE ANALYTICAL RESULTS – TOTAL PETROLEUM HYDROCARBONS

Sample	Sample Depth	Sample Date	TPH (mg/kg)				Latitude	Longitude
			C4-C12	C13-C22	C23-C32	>C32		
Location 1								
1087-203-0.5	0.5	1/26/2010	ND<1.0	62	400	640	6153266.91960	1936915.08711
1087-203-5	5	1/26/2010	ND<1.0	1.4	9.3	14		
1087-203-10	10	1/26/2010	ND<1.0	ND<1.0	2.7	4.4		
1087-203-10D	10	1/26/2010	ND<1.0	1.1	5.5	7.6		
1087-203-15	15	1/26/2010	ND<1.0	3.2	11	17		
1087-204-0.5	0.5	1/27/2010	ND<1.0	5.1	32	48	6153526.93319	1936653.51801
1087-204-5	5	1/27/2010	ND<1.0	ND<1.0	11	30		
1087-204-10	10	1/27/2010	ND<1.0	ND<1.0	ND<1.0	1.7		
1087-204-15	15	1/27/2010	ND<1.0	ND<1.0	1.8	3.8		
1087-205-0.5	0.5	1/27/2010	ND<1.0	38	290	440	6153713.20282	1936464.45810
1087-205-5	5	1/27/2010	ND<1.0	2.9	22	36		
1087-205-5D	5	1/27/2010	ND<1.0	ND<1.0	58	190		
1087-205-10	10	1/27/2010	ND<1.0	ND<1.0	ND<1.0	ND<1.0		
1087-205-15	15	1/27/2010	ND<1.0	ND<1.0	ND<1.0	ND<1.0		
1087-206-0.5	0.5	1/27/2010	ND<1.0	ND<1.0	45	89	6153902.96920	1936274.52177
1087-206-0.5D	0.5	1/27/2010	ND<1.0	ND<1.0	100	130		
1087-206-5	5	1/27/2010	ND<1.0	ND<1.0	1.2	2.1		
1087-206-10	10	1/27/2010	ND<1.0	ND<1.0	ND<1.0	ND<1.0		
1087-206-15	15	1/27/2010	ND<1.0	ND<1.0	ND<1.0	ND<1.0		
1087-207-0.5	0.5	1/27/2010	ND<1.0	ND<1.0	54	78	6154161.55899	1936010.07057
1087-207-5	5.0	1/27/2010	ND<1.0	ND<1.0	7.2	11		
1087-207-10	10	1/27/2010	ND<1.0	ND<1.0	ND<1.0	ND<1.0		
1087-207-15	15	1/27/2010	ND<1.0	2.4	11	14		
Maximum Soil Screening Levels			100	100	1,000	1,000		
Location 2								
1087-201-0.5	0.5	1/26/2010	ND<1.0	1.9	10	14	6138075.73748	1946476.05943
1087-201-10	10	1/26/2010	ND<1.0	8.0	20	25		
1087-201-20	20	1/26/2010	ND<1.0	1.8	4.7	4.8		
1087-202-0.5	0.5	1/27/2010	ND<1.0	**220**	540	660	6138317.23559	1946283.78118
1087-202-0.5D	0.5	1/27/2010	ND<1.0	ND<1.0	7.1	17		
1087-202-5	5	1/27/2010	ND<1.0	ND<1.0	4.6	9.2		
1087-202-10	10	1/27/2010	ND<1.0	2.2	6.6	9.9		
1087-202-15	15	1/27/2010	ND<1.0	ND<1.0	2.7	3.8		
Maximum Soil Screening Levels			100	100	1,000	1,000		
Decontamination Water (mg/l)								
1087-ERB-SP		1/26/2010	ND<0.050	ND<0.050	ND<0.050	ND<0.050		
1087-ERB-SS2		1/27/2010	ND<0.050	ND<0.050	ND<0.050	ND<0.050		

Notes:
TPH - total petroleum hydrocarbons
mg/kg - milligrams per kilogram
mg/l - milligrams per liter
J - analyte detected below quantitation limits. See Appendix A for details
ND − not detected above reporting limits presented in Appendix A
Maximum Soil Screening Level from California Regional Water Quality Control Board, Los Angeles and Ventura Counties, Region 4, 1996, Interim Site Assessment & Cleanup Guidebook, May assuming the sample is collected from within 20 feet above the ground water table.

TABLE 4 – WATER SAMPLE ANALYTICAL RESULTS

Sample	1087-201-W	1087-201-WD	1087-203-W	1087-ERB-W	Trip Blank	RWQCB Discharge Limitations
Sample Date	1/26/2010	1/26/2010	1/26/2010	1/26/2010	1/26/2010	
Pre-Filtered Metals (µg/l)						
Antimony	2.7	ND<2.5	ND<2.5	ND<0.50	NA	4,300
Arsenic	29	**69**	**74**	ND<1.0	NA	36
Beryllium	ND<100	ND<100	ND<100	ND<0.50	NA	--
Cadmium+	**12**	**49**	**46**	0.035 J	NA	9.4
Chromium III	110	880	470	ND<0.50	NA	--
Chromium IV	ND<0.010	ND<0.010	ND<0.010	ND<0.010	NA	50
Copper+	**61**	**570**	**350**	ND<1.0	NA	3.7
Cyanide (mg/l)	ND<0.010	ND<0.010	0.015	ND<0.010	NA	--
Lead+	**31**	3.3	**250**	0.15 J	NA	8.5
Mercury	ND<1.0	**1.9**	**1.1**	ND<0.20	NA	0.051
Nickel+	**110**	**1600**	**1200**	ND<1.0	NA	8.3
Selenium	40	23	8.7	ND<0.50	NA	71
Silver+	0.18	**3.1**	2.0	ND<0.50	NA	2.2
Thallium	0.32	1.7	1.7	ND<0.50	NA	6.3
Zinc+	**540**	**1600**	**1200**	7.6 J	NA	86
Post-Filtered Metals (µg/l)						
Antimony	2.4	0.96 J	ND<2.5	NA	NA	4,300
Arsenic	8.3	9.4	3.7	NA	NA	36
Beryllium	ND<100	ND<1.0	ND<1.0	NA	NA	--
Boronº (mg/l)	3.0	2.6	2.2	NA	NA	--
Cadmium+	0.29 J	0.30 J	0.26 J	NA	NA	9.4
Chromium	0.34 J	ND<0.50	0.098 J	NA	NA	--
Copper+	**17**	**16**	**17**	NA	NA	3.7
Lead+	0.15 J	ND<1.0	0.11 J	NA	NA	8.5
Nickel+	**17**	**15**	**21**	NA	NA	8.3
Selenium	31	19	20	NA	NA	71
Silver+	0.098 J	0.034	ND<0.50	NA	NA	2.2
Thallium	ND<0.50	ND<0.50	ND<0.50	NA	NA	6.3
Zinc+	22	21	14	NA	NA	86
VOCs (µg/l)						
1,1 Dichloroethane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.0
1,1 Dichloroethylene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.2
1,1,1 Trichloroethane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	200
1,1,2 Trichloroethane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	42
1,1,2,2 Tetrachloroethane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11
1,2 Dichlorobenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17,000
1,2 Dichloroethane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	99
1,2 Dichloropropane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	39
1,2 Trans Dichloroethylene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140,000
1,3 Dichlorobenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2,600
cis-1,3 Dichloropropylene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.5
1,4 Dichlorobenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.5
2-Chloroethyl vinyl ether	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
Acetone	ND<10	ND<10	ND<10	ND<10	ND<10	700
Acrolein	ND<10	ND<10	ND<10	ND<10	ND<10	100
Acrylonitrile	ND<10	ND<10	ND<10	ND<10	ND<10	0.66
Benzene	ND<0.50	0.81	0.30 J	ND<0.50	ND<0.50	1.0
Bromoform	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	360
Carbon Tetrachloride	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.4
Chlorobenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21,000
Chlorodibromo-methane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	34

TABLE 4 – WATER SAMPLE ANALYTICAL RESULTS

Sample	1087-201-W	1087-201-WD	1087-203-W	1087-ERB-W	Trip Blank	RWQCB Discharge Limitations
Sample Date	1/26/2010	1/26/2010	1/26/2010	1/26/2010	1/26/2010	
Chloroethane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100
Chlororform	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100
Dichlorobromo-methane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	46
Ethylbenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	700
Ethylene Dibromide	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05
Methyl Bromide	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,000
Methyl Chloride	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	3.0
Methyl ethyl ketone	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	700
Methyl tertiary butyl ether	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.0
Methylene Chloride	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,600
Tetrachloroethylene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.85
Toluene	ND<0.50	0.53	0.25J	0.81	ND<0.50	150
Trichloroethylene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.0
Vinyl Chloride	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.5
Xylenes	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1,750
Pesticides and PCBs (µg/l)						
4,4,'-DDD	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NA	0.00084
4,4'-DDE	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NA	0.00059
4,4'-DDT	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NA	0.00059
Alpha-Endosulfan	ND<0.025	ND<0.025	ND<0.025	ND<0.025	NA	0.0087
Alpha-BHC	ND<0.025	ND<0.025	ND<0.025	ND<0.025	NA	0.013
Aldrin	ND<0.025	ND<0.025	ND<0.025	ND<0.025	NA	0.00014
Beta-Endosulfan	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NA	0.0087
beta-BHC	ND<0.025	ND<0.025	ND<0.025	ND<0.025	NA	0.046
Chlordane	ND<0.25	ND<0.25	ND<0.25	ND<0.25	NA	0.00059
delta-BHC	ND<0.025	ND<0.025	ND<0.025	ND<0.025	NA	--
Dieldrin	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NA	0.00014
Endosulfan Sulfate	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NA	240
Endrin	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NA	0.0023
Endrin Aldehyde	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NA	0.81
Heptachlor	ND<0.025	ND<0.025	ND<0.025	ND<0.025	NA	0.00021
Heptachlor Epoxide	ND<0.025	ND<0.025	ND<0.025	ND<0.025	NA	0.00011
gamma-BHC	ND<0.025	ND<0.025	ND<0.025	ND<0.025	NA	0.063
PCB 1016	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	0.00017
PCB 1221	ND<1.0	ND<1.0	ND<1.0	ND<1.0	NA	0.00017
PCB 1232	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	0.00017
PCB 1242	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	0.00017
PCB 1248	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	0.00017
PCB 1254	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	0.00017
PCB 1260	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	0.00017
Toxaphene	ND<2.5	ND<2.5	ND<2.5	ND<2.5	NA	0.00075
SVOCs (µg/l)						
1,2,4-Trichlorobenzene	ND<10	ND<10	ND<10	ND<10	NA	--
1,2-Dichlorobenzene	ND<10	ND<10	ND<10	ND<10	NA	17,000
1,2-Diphenylhydrazine	ND<10	ND<10	ND<10	ND<10	NA	0.54
1,3-Dichlorobenzene	ND<10	ND<10	ND<10	ND<10	NA	2,600
1,4-Dichlorobenzene	ND<10	ND<10	ND<10	ND<10	NA	2,600
2,4,6-Trichlorophenol	ND<10	ND<10	ND<10	ND<10	NA	6.5
2,4-Dichlorophenol	ND<10	ND<10	ND<10	ND<10	NA	790
2,4-Dimethylphenol	ND<10	ND<10	ND<10	ND<10	NA	2,300
2,4-Dinitrophenol	ND<50	ND<50	ND<50	ND<50	NA	14,000
2,4-Dinitrotoluene	ND<10	ND<10	ND<10	ND<10	NA	9.1
2,6-Dinitrotoluene	ND<10	ND<10	ND<10	ND<10	NA	--

TABLE 4 – WATER SAMPLE ANALYTICAL RESULTS

Sample	1087-201-W	1087-201-WD	1087-203-W	1087-ERB-W	Trip Blank	RWQCB Discharge Limitations
Sample Date	1/26/2010	1/26/2010	1/26/2010	1/26/2010	1/26/2010	
2-Chloronaphthalene	ND<10	ND<10	ND<10	ND<10	NA	4,300
2-Chlorophenol	ND<10	ND<10	ND<10	ND<10	NA	400
2-Nitrophenol	ND<10	ND<10	ND<10	ND<10	NA	--
3,3´-Dichlorobenzidine	ND<20	ND<20	ND<20	ND<20	NA	0.077
4,6-Dinitro-2-methylphenol	ND<50	ND<50	ND<50	ND<50	NA	765
4-Bromophenyl-phenylether	ND<10	ND<10	ND<10	ND<10	NA	--
4-Chloro-3-methylphenol	ND<50	ND<50	ND<50	ND<50	NA	--
4-Chlorophenyl-phenylether	ND<10	ND<10	ND<10	ND<10	NA	--
4-Nitrophenol	ND<50	ND<50	ND<50	ND<50	NA	--
Acenaphthene	ND<10	ND<10	ND<10	ND<10	NA	2,700
Acenaphthylene	ND<10	ND<10	ND<10	ND<10	NA	--
Anthracene	ND<10	ND<10	ND<10	ND<10	NA	110,000
Benzidine (M)	ND<50	ND<50	ND<50	ND<50	NA	0.00054
Benzo(a)anthracene	ND<10	ND<10	ND<10	ND<10	NA	0.049
Benzo(a)pyrene	ND<10	ND<10	ND<10	ND<10	NA	0.049
Benzo(b)fluoranthene	ND<10	ND<10	ND<10	ND<10	NA	0.049
Benzo(g,h,i)perylene	ND<10	ND<10	ND<10	ND<10	NA	--
Benzo(k)fluoranthene	ND<10	ND<10	ND<10	ND<10	NA	0.049
Bis(2-chloroethoxy)methane	ND<10	ND<10	ND<10	ND<10	NA	--
Bis(2-chloroethyl)ether	ND<10	ND<10	ND<10	ND<10	NA	1.4
Bis(2-chloroisopropyl)ether	ND<10	ND<10	ND<10	ND<10	NA	170,000
Bis(2-ethylhexyl)phthalate	ND<10	ND<10	ND<10	ND<10	NA	5.9
Butylbenzylphthalate	ND<10	ND<10	ND<10	ND<10	NA	5,200
Chrysene	ND<10	ND<10	ND<10	ND<10	NA	0.049
Dibenz(a,h)anthracene	ND<10	ND<10	ND<10	ND<10	NA	0.049
Diethylphthalate	ND<10	ND<10	ND<10	ND<10	NA	120,000
Dimethylphthalate	ND<10	ND<10	ND<10	ND<10	NA	2,900,000
Di-n-butylphthalate	ND<10	ND<10	ND<10	ND<10	NA	1,200
Di-n-octylphthalate	ND<10	ND<10	ND<10	ND<10	NA	--
Fluoranthene	ND<10	ND<10	ND<10	ND<10	NA	370
Fluorene	ND<10	ND<10	ND<10	ND<10	NA	14,000
Hexachlorobenzene	ND<10	ND<10	ND<10	ND<10	NA	0.00077
Hexachlorobutadiene	ND<20	ND<20	ND<20	ND<20	NA	50
Hexachlorocyclopentadiene	ND<10	ND<10	ND<10	ND<10	NA	17,000
Hexachloroethane	ND<10	ND<10	ND<10	ND<10	NA	8.9
Indeno(1,2,3-cd)pyrene	ND<10	ND<10	ND<10	ND<10	NA	0.049
Isophorone	ND<10	ND<10	ND<10	ND<10	NA	600
Naphthalene	ND<10	ND<10	ND<10	ND<10	NA	--
Nitrobenzene	ND<10	ND<10	ND<10	ND<10	NA	1,900
N-Nitrosodimethylamine	ND<50	ND<50	ND<50	ND<50	NA	8.1
N-Nitrosodi-n-propylamine	ND<10	ND<10	ND<10	ND<10	NA	1.4
N-Nitrosodiphenylamine	ND<10	ND<10	ND<10	ND<10	NA	16
Pentachlorophenol	ND<50	ND<50	ND<50	ND<50	NA	7.9
Phenanthrene	ND<10	ND<10	ND<10	ND<10	NA	--
Phenol	ND<10	ND<10	ND<10	ND<10	NA	4,600,000
Pyrene	ND<10	ND<10	ND<10	ND<10	NA	11,000
Miscellaneous (mg/l)						
Perchlorate (µg/l)	ND<10	ND<10	ND<10	ND<2.0	NA	4.0
1, 4 - Dioxane (mg/l)	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	3
TPH (mg/l)	0.57	15	15	ND<2.4	NA	100
Conventional						
Hardness (mg/l)	3,900	12,000	11,000		NA	NA
pH (pH units)	7.6	7.3	7.2	5.8	NA	NA

TABLE 4 – WATER SAMPLE ANALYTICAL RESULTS

Sample	1087-201-W	1087-201-WD	1087-203-W	1087-ERB-W	Trip Blank	RWQCB Discharge Limitations
Sample Date	1/26/2010	1/26/2010	1/26/2010	1/26/2010	1/26/2010	
Suspended Solids (mg/l)	14,000	67,000	50,000	ND<10	NA	NA
BOD (mg/l)	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	NA
Oil and Grease (mg/l)	1.1	1.6	2.8	ND<4.8	NA	NA
Settleable Matter (ml/l)	180	270	520	ND<0.10	NA	NA
Turbidity (NTU)	48,000	75,000	38,000	ND<0.10	NA	NA
TDS (mg/l)º	6,800	5,600	6,400	8.0	NA	NA
Chloride (mg/l)º	540	590	700	ND<0.50	NA	NA
Sulfate (mg/l)º	2,800	2,900	3,000	ND<1.0	NA	NA
Nitrogen, Nitrate (mg/l)º	ND<1.0	ND<1.0	3.6	ND<0.10	NA	NA
Nitrogen, Nitrite (mg/l)	ND<1.0	ND<1.0	ND<1.0	ND<0.10	NA	NA
Total Sulfide (mg/l)	2.3	2.9	5.7	ND<0.010	NA	NA
Boron (mg/l)º	4.3	3.3	3.6	ND<0.10	NA	NA

Notes:
RWQCB – Regional Water Quality Control Board
CCR – California Code of Regulations
TPH – total petroleum hydrocarbons; analyzed in accordance with United States Environmental Protection Agency (EPA) Modified Test Method 8015
Oil and Grease – analyzed in accordance with EPA test 1664
VOCs – Volatile Organic Compounds, analyzed in accordance with EPA test 8260B; includes 65 analytes
SVOCs – Semivolatile Organic Compounds; analyzed in accordance with EPA test 8260B
pH analyzed in accordance with EPA test 150.1
Total Sulfide analyzed in accordance with EPA test 376.2
Sulfate analyzed in accordance with EPA test 300.0
Chloride analyzed in accordance with EPA test 300.0
Nitrogen, Nitrate analyzed in accordance with EPA test 300.0
Nitrogen, Nitrite analyzed in accordance with EPA test 300.0
Turbidity analyzed in accordance with EPA test 180.1
TDS – Total Dissolved Solids; analyzed in accordance with EPA test 160.1
Suspended Solids analyzed in accordance with EPA test 160.2
Settleable Matter analyzed in accordance with EPA test 160.5
BOD – Biochemical Oxygen Demand
Drinking water metals in accordance with EPA 200.7
Hardness in accordance with EPA 3010A
Cyanide in accordance with EPA 335.2
Non-Halogenated organics in accordance with EPA 8015B
Organchloride pesticides in accordance with EPA 8081A
PCBS in accordance with EPA 8082
Perchlorate in accordance with EPA 314.0
mg/l – milligrams per liter
µg/l – micrograms per liter
Notes: (Continued)
ml/l – milliliters per liter
ND – Not Detected
NTU – nephelometer turbidity units
(300) – NPDES criteria provided by the Department; indicated only when sample result exceeded the criteria
"+" hardness-dependent metal
º Watershed Specific Limit
NA – Not Applicable
-- – no screening level
BOLD - exceeds the RWQCB NPDES Application Supplemental Requirements Screening Level for Other Receiving Waters
Please refer to the attached laboratory reports for additional details.

TABLE 5 – WASTE SOIL SAMPLE ANALYTICAL RESULTS

Sample	Sample Date	Metals (mg/kg)	TPH (mg/kg)				VOCs (µg/kg)
		Lead	C4-C12	C13-C22	C23-C32	>C32	
Location 1 - Drum 1	1/26/2010	1.6 J	ND<1.0	ND<1.0	4.2	4.3	ND
Location 2 - Drum 1	1/26/2010	2.0 J	ND<1.0	5.5	15	20	ND
Maximum Soil Screening Levels			100	100	1,000	1,000	--

Notes:
TPH - total petroleum hydrocarbons
VOCs - volatile organic compounds
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram
J - analyte detected below quantitation limits. See Appendix A for details
ND − not detected above reporting limits presented in Appendix A
Maximum Soil Screening Level from California Regional Water Quality Control Board, Los Angeles and Ventura Counties, Region 4, 1996, Interim Site Assessment & Cleanup Guidebook, May assuming the sample is collected from within 20 feet above the ground water table.

REFERENCE: 2007 THOMAS GUIDE FOR VENTURA COUNTY, STREET GUIDE AND DIRECTORY

APPROXIMATE SCALE IN FEET

0 2800 5600

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Map © Rand McNally, R.L.07-S-139

N

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Ninyo & Moore	SITE LOCATION MAP	FIGURE
PROJECT NO. / DATE	ROUTE 1 VENTURA COUNTY, CALIFORNIA	1
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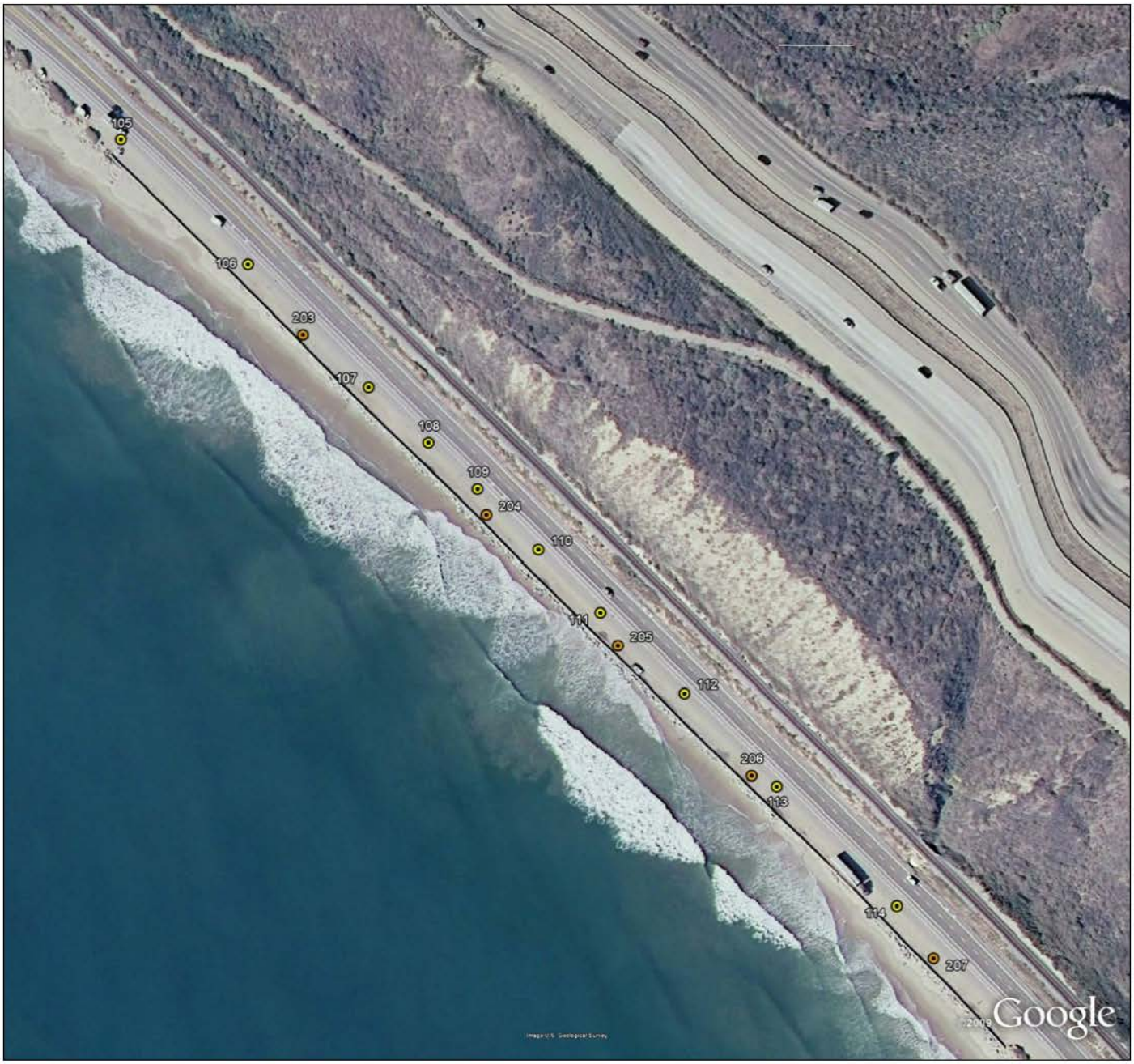


REFERENCE: GOOGLE EARTH AERIAL PHOTO, 2010.

N

APPROXIMATE SCALE IN FEET

0 200 400

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

203	APPROXIMATE LOCATION OF HOLLOW STEM AUGER BORING
105	APPROXIMATE LOCATION OF HAND AUGER BORING

207126_A2.DWG

Ninyo & Moore

BORING LOCATION MAP
LOCATION 1

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE
207126016	2/10

FIGURE

2

REFERENCE: GOOGLE EARTH AERIAL PHOTO, 2010.

N

APPROXIMATE SCALE IN FEET

0 100 200

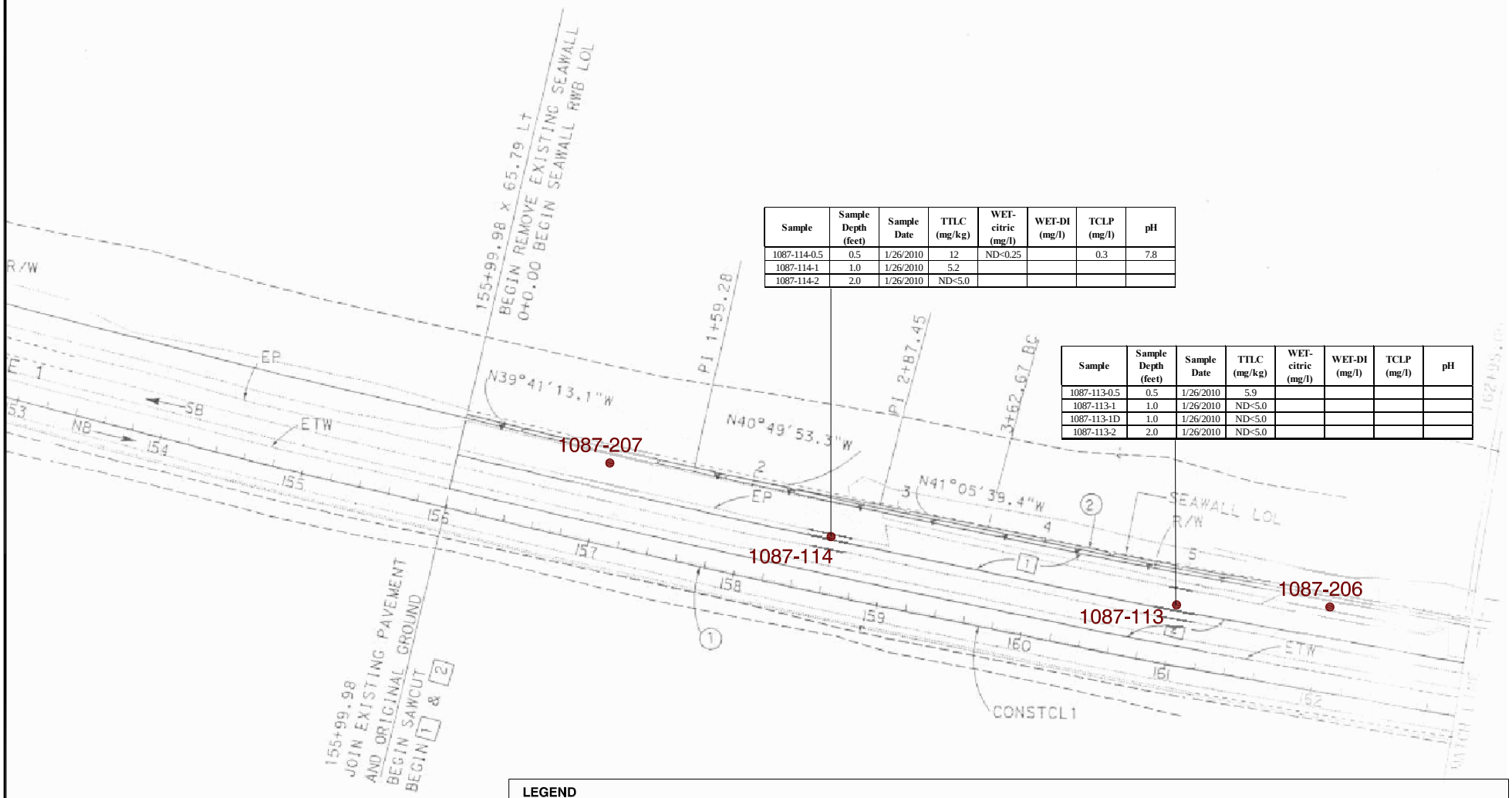
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

201	APPROXIMATE LOCATION OF HOLLOW STEM AUGER BORING
101	APPROXIMATE LOCATION OF HAND AUGER BORING

Ninyo & Moore		BORING LOCATION MAP LOCATION 2	FIGURE
PROJECT NO.	DATE	ROUTE 1 VENTURA COUNTY, CALIFORNIA	3
207126016	2/10		

207126_A3.DWG



Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-114-0.5	0.5	1/26/2010	12	ND<0.25		0.3	7.8
1087-114-1	1.0	1/26/2010	5.2				
1087-114-2	2.0	1/26/2010	ND<5.0				

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-113-0.5	0.5	1/26/2010	5.9				
1087-113-1	1.0	1/26/2010	ND<5.0				
1087-113-1D	1.0	1/26/2010	ND<5.0				
1087-113-2	2.0	1/26/2010	ND<5.0				

LEGEND

mg/kg	Milligrams per kilogram	WET-DI	Soluble lead by WET using deionized water for comparison to the Soluble Threshold Limit Concentration
mg/l	Milligrams per liter	TCLP	Soluble lead by Toxicity Characteristic Leaching Procedure
TTLC	Total Lead for comparison to the Total Threshold Limit Concentration	ND	Not detected above reporting limits presented in Appendix C
WET	Waste Extraction Tests	1087-113 ●	Approximate boring location
WET-citric	Soluble lead by WET using citric acid for comparison to the Soluble Threshold Limit Concentration		

APPROXIMATE SCALE IN FEET

0 100 200

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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PROJECT NO.	DATE
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BORING LOCATION MAP
LOCATION 1

ROUTE 1
VENTURA COUNTY, CALIFORNIA

FIGURE

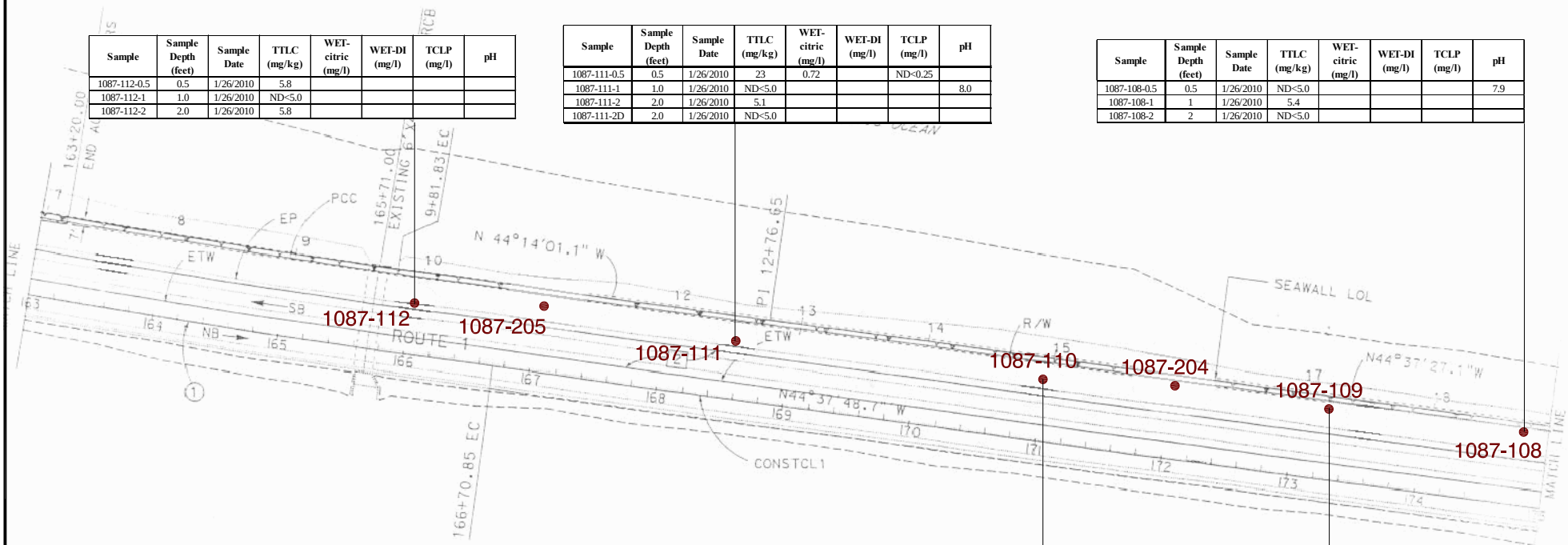
4

207126_A4.DWG

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-112-0.5	0.5	1/26/2010	5.8				
1087-112-1	1.0	1/26/2010	ND<5.0				
1087-112-2	2.0	1/26/2010	5.8				

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-111-0.5	0.5	1/26/2010	23	0.72		ND<0.25	
1087-111-1	1.0	1/26/2010	ND<5.0				8.0
1087-111-2	2.0	1/26/2010	5.1				
1087-111-2D	2.0	1/26/2010	ND<5.0				

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-108-0.5	0.5	1/26/2010	ND<5.0				7.9
1087-108-1	1	1/26/2010	5.4				
1087-108-2	2	1/26/2010	ND<5.0				



Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-110-0.5	0.5	1/26/2010	13	0.85		ND<0.25	
1087-110-1	1.0	1/26/2010	ND<5.0				
1087-110-2	2.0	1/26/2010	ND<5.0				

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-109-0.5	0.5	1/26/2010	ND<5.0				
1087-109-1	1	1/26/2010	ND<5.0				
1087-109-1D	1	1/26/2010	ND<5.0				
1087-109-2	2.0	1/26/2010	ND<5.0				

LEGEND

mg/kg	Milligrams per kilogram	WET-DI	Soluble lead by WET using deionized water for comparison to the Soluble Threshold Limit Concentration
mg/l	Milligrams per liter	TCLP	Soluble lead by Toxicity Characteristic Leaching Procedure
TTLC	Total Lead for comparison to the Total Threshold Limit Concentration	ND	Not detected above reporting limits presented in Appendix C
WET	Waste Extraction Tests	1087-112 ●	Approximate boring location
WET-citric	Soluble lead by WET using citric acid for comparison to the Soluble Threshold Limit Concentration		

207126_A5.DWG

APPROXIMATE SCALE IN FEET

0 120 240

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

PROJECT NO.	DATE
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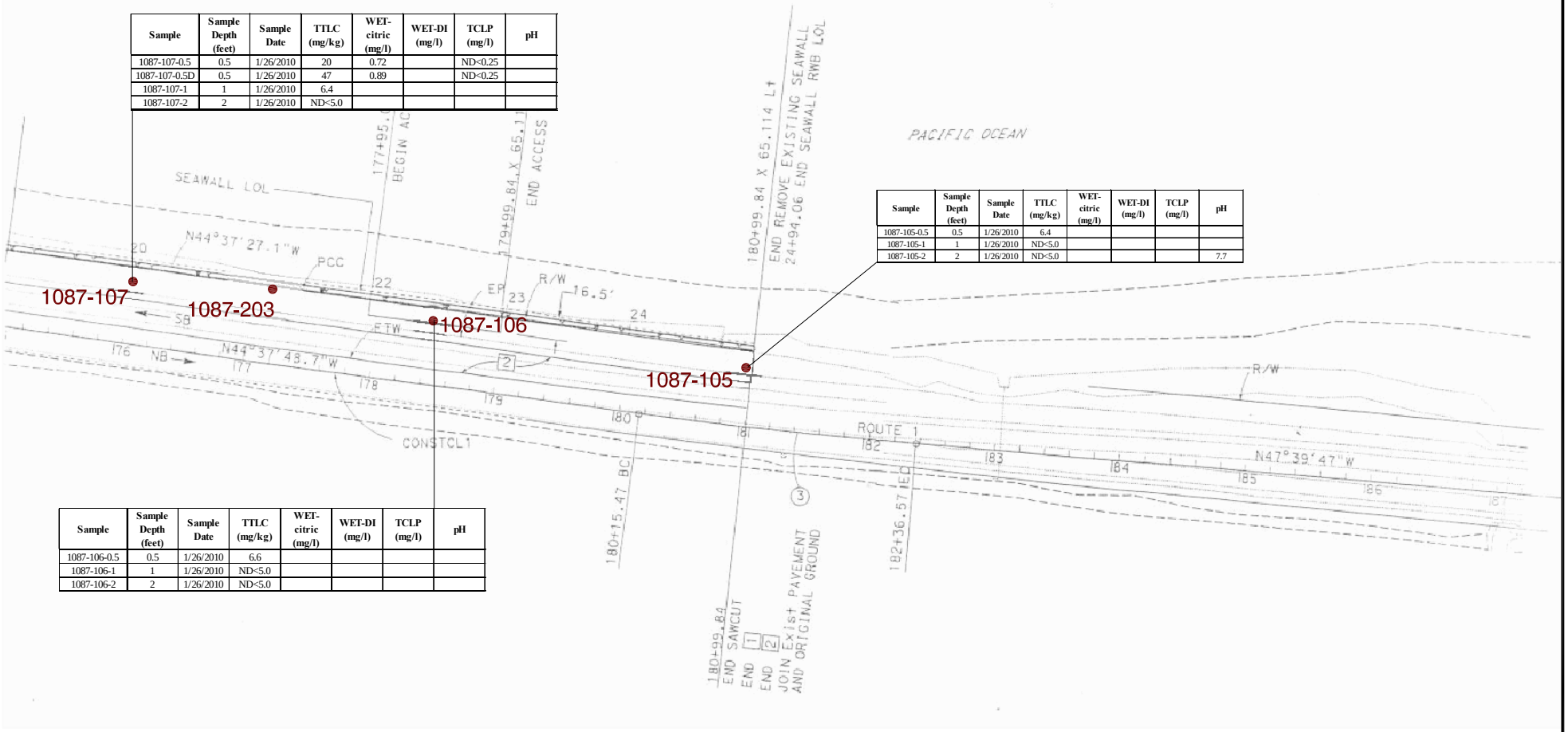
BORING LOCATION MAP LOCATION 1

ROUTE 1
VENTURA COUNTY, CALIFORNIA

FIGURE

5

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-107-0.5	0.5	1/26/2010	20	0.72		ND<0.25	
1087-107-0.5D	0.5	1/26/2010	47	0.89		ND<0.25	
1087-107-1	1	1/26/2010	6.4				
1087-107-2	2	1/26/2010	ND<5.0				



Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-105-0.5	0.5	1/26/2010	6.4				
1087-105-1	1	1/26/2010	ND<5.0				
1087-105-2	2	1/26/2010	ND<5.0				7.7

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-106-0.5	0.5	1/26/2010	6.6				
1087-106-1	1	1/26/2010	ND<5.0				
1087-106-2	2	1/26/2010	ND<5.0				

LEGEND

mg/kg	Milligrams per kilogram	WET-DI	Soluble lead by WET using deionized water for comparison to the Soluble Threshold Limit Concentration
mg/l	Milligrams per liter	TCLP	Soluble lead by Toxicity Characteristic Leaching Procedure
TTLC	Total Lead for comparison to the Total Threshold Limit Concentration	ND	Not detected above reporting limits presented in Appendix C
WET	Waste Extraction Tests	1087-107 ●	Approximate boring location
WET-citric	Soluble lead by WET using citric acid for comparison to the Soluble Threshold Limit Concentration		

APPROXIMATE SCALE IN FEET

0 120 240

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

207126_A6.DWG

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PROJECT NO.	DATE
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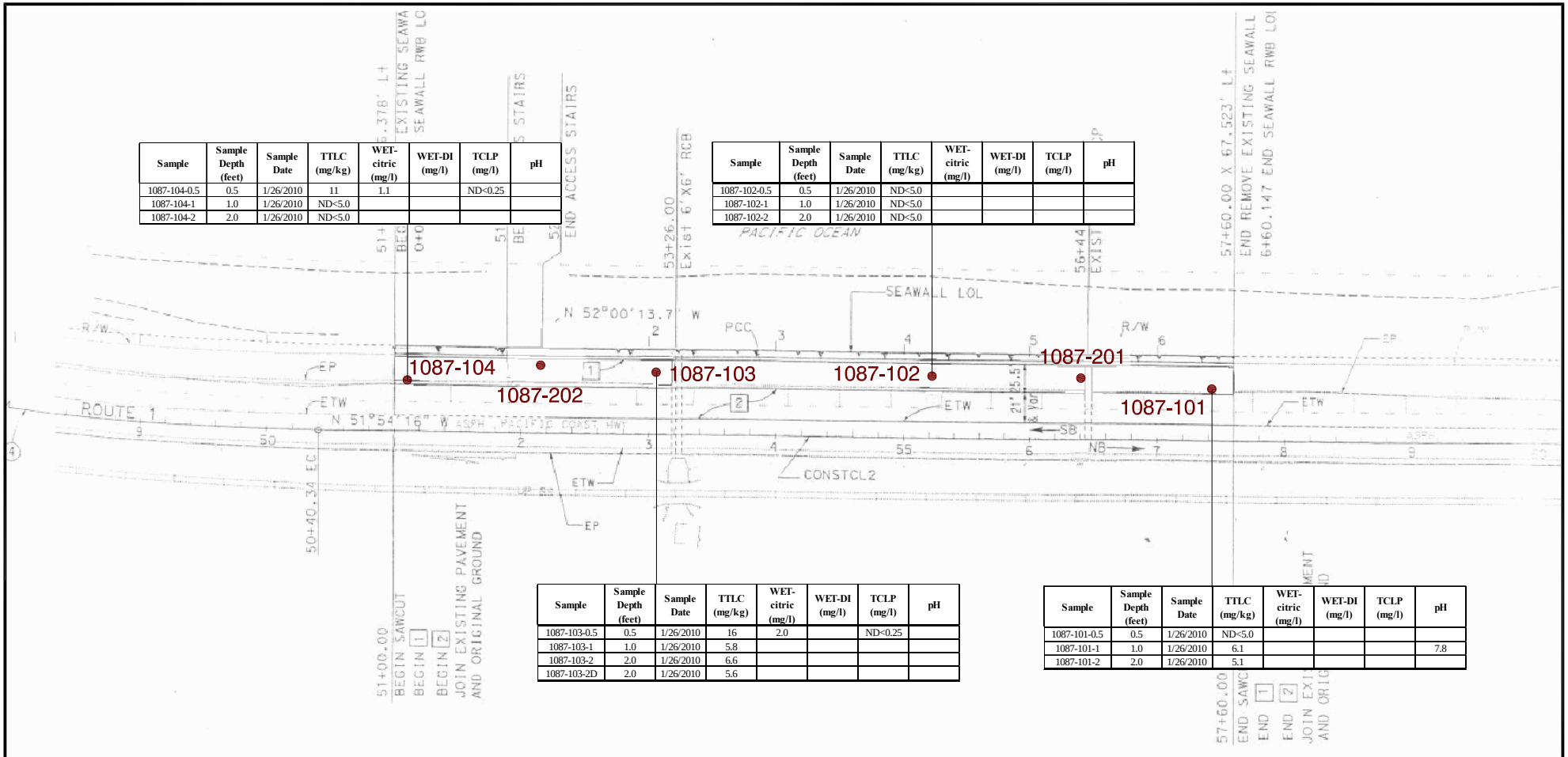
BORING LOCATION MAP LOCATION 1

ROUTE 1
VENTURA COUNTY, CALIFORNIA

FIGURE

6



Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-104-0.5	0.5	1/26/2010	11	1.1		ND<0.25	
1087-104-1	1.0	1/26/2010	ND<5.0				
1087-104-2	2.0	1/26/2010	ND<5.0				

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-102-0.5	0.5	1/26/2010	ND<5.0				
1087-102-1	1.0	1/26/2010	ND<5.0				
1087-102-2	2.0	1/26/2010	ND<5.0				

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-103-0.5	0.5	1/26/2010	16	2.0		ND<0.25	
1087-103-1	1.0	1/26/2010	5.8				
1087-103-2	2.0	1/26/2010	6.6				
1087-103-2D	2.0	1/26/2010	5.6				

Sample	Sample Depth (feet)	Sample Date	TTLC (mg/kg)	WET-citric (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
1087-101-0.5	0.5	1/26/2010	ND<5.0				
1087-101-1	1.0	1/26/2010	6.1				7.8
1087-101-2	2.0	1/26/2010	5.1				

LEGEND

mg/kg	Milligrams per kilogram	WET-DI	Soluble lead by WET using deionized water for comparison to the Soluble Threshold Limit Concentration
mg/l	Milligrams per liter	TCLP	Soluble lead by Toxicity Characteristic Leaching Procedure
TTLC	Total Lead for comparison to the Total Threshold Limit Concentration	ND	Not detected above reporting limits presented in Appendix C
WET	Waste Extraction Tests	1087-104 ●	Approximate boring location
WET-citric	Soluble lead by WET using citric acid for comparison to the Soluble Threshold Limit Concentration		

APPROXIMATE SCALE IN FEET

0 120 240

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

207126_A7.DWG

Ninyo & Moore

PROJECT NO.	DATE
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BORING LOCATION MAP LOCATION 2

ROUTE 1
VENTURA COUNTY, CALIFORNIA

FIGURE

7

APPENDIX A

FIELD AND QA/QC PROCEDURES

A.1 Hand Auger and Hollow Stem Auger Soil Sampling Procedures

1. Borings were advanced by hand auger to 2 feet below ground surface (bgs) for the ADL survey and 5 feet bgs for the SI.

2. The SI borings were advanced using a truck-mounted hollow stem auger rig equipped with a split spoon sampler.

3. The drive rods and samplers were cleaned prior to the advancement.

4. The quantities of waste soil and decontamination water generated during hollow stem drilling were containerized and disposed properly.

5. During soil sample collection, soil classification (in general accordance with the Unified Soil Classification System [USCS]), sample type and depth, and photo-ionization detector (PID) readings were recorded on boring logs.

6. Discrete, relatively undisturbed soil samples were collected using a California split-spoon sampler for the 10 foot and greater samples.

7. The sampler was cleaned prior to use and between sampling intervals using a bristle brush and a detergent solution; this was followed by two tap water rinses and a distilled water rinse. The sampler was dried by air or with a paper towel prior to being used for sampling.

8. The sampler was driven approximately 18 inches using the hollow-stem hammer rod.

9. Following retrieval of the sampler, the bottom 6-inch stainless steel or brass sleeve was removed from the sampler, its ends covered with Teflon® sheeting, and capped with polyethylene end caps. The sample sleeve was labeled with the project number, sample number, sample depth, collection date and time, and sampler's initials. This sample sleeve was used for chemical analysis.

10. The soil samples were placed in sealable plastic bags and stored in an ice chest cooled using bagged water ice to a temperature of approximately 4 degrees Celsius.

11. The remaining soil in the soil sample sleeves was used to describe the soil lithology and to observe indications of discoloration and/or odor.

12. The samples were delivered to a State of California Environmental Laboratory Accreditation Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP) certified laboratory within 24 hours of collection. Sample handling, transport,

and delivery to the laboratory was documented using appropriate chain-of-custody (COC) protocol, including the use of COC forms.

13. The 2-foot ADL borings were backfilled with the soil cuttings and the 15 to 20-foot SI borings were backfilled with bentonite or cement, hydrated with potable water to 6 inches below approximate grade level following termination of soil sampling.

14. The ground surface was patched to original conditions.

15. Boring locations were recorded using global positioning satellite (GPS) coordinates.

A.2 Groundwater Sampling

1. Hollow stem auger drilling methods were used to collect groundwater samples.

2. A temporary well consisting of PVC pipe and a pre-pack filter was installed.

3. The water was allowed to flow through the screen into the temporary well.

4. A small diameter bailer was lowered into the temporary well.

5. Groundwater samples were collected directly from the bailer into laboratory supplied containers.

6. The samples were delivered to a California-certified laboratory within 24-hours of collection. Sample handling, transport, and delivery to the laboratory was documented using appropriate COC protocol, including the use of COC forms.

7. After sampling the well was removed and the boring backfilled with bentonite or cement, hydrated with potable water to 6 inches below approximate grade level.

8. The ground surface was patched to original conditions.

9. The boring locations were recorded using GPS coordinates.

A.3 Sample Handling

1. The samples retained for chemical analyses were placed in Ziploc-type bags and stored in an ice chest cooled, using ice, to a temperature of approximately 4 degrees Celsius.

2. The samples were delivered to a State-certified laboratory within 24 hours of collection. Sample handling, transport, and delivery to the laboratory was documented using COC procedures, including the use of COC forms.

A.4 Decontamination and Disposal

1. Equipment that comes into contact with potentially contaminated soil or water was decontaminated.

2. Disposable equipment intended for one-time use was not decontaminated, but was packaged for appropriate disposal.

3. Decontamination occurred prior to and after each use of a piece of equipment.

4. Soil sampling equipment was decontaminated between each sample collected by immersing the sampler in a solution of non-phosphate detergent and tap water wash. The equipment was scrubbed with a bristle brush (if necessary) to remove particulate matter adhering to the sampling equipment. The sampling equipment was then rinsed in tap water, rinsed again in distilled water, and air-dried.

5. Water sampling equipment was decontaminated between each sample collected by immersing the sampler in a solution of non-phosphate detergent and tap water wash. The equipment was scrubbed with a bristle brush (if necessary) to remove particulate matter adhering to the sampling equipment. The sampling equipment was then rinsed in tap water, rinsed again distilled water, and air-dried.

6. Excess soil cuttings, purge water, and decontamination water generated by ADL and SI field activities were transferred to drums for storage at a location specified by the Department pending disposal.

7. An equipment blank was collected from each sampler upon completion of each COC.

APPENDIX B

BORING LOGS

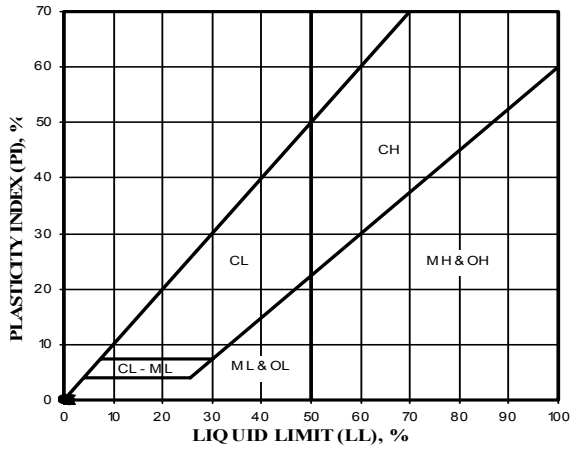
U.S.C.S. METHOD OF SOIL CLASSIFICATION

MAJOR DIVISIONS		SYMBOL	TYPICAL NAMES
COARSE-GRAINED SOILS (More than 1/2 of soil >No. 200 sieve size)	**GRAVELS (More than 1/2 of coarse fraction > No. 4 sieve size)**	GW	Well graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS (More than 1/2 of coarse fraction <No. 4 sieve size)	SW	Well graded sands or gravelly sands, little or no fines
		SP	Poorly graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (More than 1/2 of soil <No. 200 sieve size)	**SILTS & CLAYS Liquid Limit <50**	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean
		OL	Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS Liquid Limit >50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS		Pt	Peat and other highly organic soils

GRAIN SIZE CHART

CLASSIFICATION	RANGE OF GRAIN SIZE	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL	3" to No. 4	76.2 to 4.76
Coarse	3" to 3/4"	76.2 to 19.1
Fine	3/4" to No. 4	19.1 to 4.76
SAND	No. 4 to No. 200	4.76 to 0.075
Coarse	No. 4 to No. 10	4.76 to 2.00
Medium	No. 10 to No. 40	2.00 to 0.420
Fine	No. 40 to No. 200	0.420 to 0.075
SILT & CLAY	Below No. 200	Below 0.075

PLASTICITY CHART



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U.S.C.S. METHOD OF SOIL CLASSIFICATION

BORING LOG EXPLANATION SHEET

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	
0	■							Bulk sample.
		■						Modified split-barrel drive sampler.
		☒						No recovery with modified split-barrel drive sampler.
		▮						Sample retained by others.
		◤						Standard Penetration Test (SPT).
5		◥						No recovery with a SPT.
		▯	XX/XX					Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
		◥						No recovery with Shelby tube sampler.
		▯						Continuous Push Sample.
				♀				Seepage.
10				▽				Groundwater encountered during drilling.
				▼				Groundwater measured after drilling.
						▦	SM	ALLUVIUM: Solid line denotes unit change.
								Dashed line denotes material change.
15								Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Sheared Bedding Surface
20								The total depth line is a solid line that is drawn at the bottom of the boring.

Ninyo & Moore

BORING LOG

EXPLANATION OF BORING LOG SYMBOLS

PROJECT NO.	DATE	FIGURE
	Rev. 01/03	

DATE DRILLED 1/26/10 BORING NO. 1087-201

GROUND ELEVATION ± (MSL) SHEET 1 OF 2

METHOD OF DRILLING 8" Hollow-Stem Auger

DRIVE WEIGHT NA DROP NA

SAMPLED BY ZKM LOGGED BY ZKM REVIEWED BY WRC

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■			1087-201-0.5				SM	ALLUVIUM: Olive brown (2.5Y 4/3), wet, dense, silty SAND; with gravel.
5									
10		■		1087-201-10				SP	Gray (2.5Y 5/1), wet, dense, SAND; fine grained.
15						▽			
20		■		1027-201-20				SP	Dark gray (2.5Y 4/1), wet, SAND; trace sea shells, fine grained.

Ninyo & Moore

BORING LOG

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE	FIGURE
207126016	2/10	A-1

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
20									Total Depth = 20 feet bgs. Groundwater encountered at 14 feet bgs. Backfilled with bentonite on 1/26/10. Note:
25									
30									
35									
40									

DATE DRILLED 1/26/10 BORING NO. 1087-201

GROUND ELEVATION ± (MSL) SHEET 2 OF 2

METHOD OF DRILLING 8" Hollow-Stem Auger

DRIVE WEIGHT NA DROP NA

SAMPLED BY ZKM LOGGED BY ZKM REVIEWED BY WRC

Ninyo & Moore

BORING LOG

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE	FIGURE
207126016	2/10	A-2

DATE DRILLED 1/27/10 BORING NO. 1087-202

GROUND ELEVATION ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger

DRIVE WEIGHT NA DROP NA

SAMPLED BY ZKM LOGGED BY ZKM REVIEWED BY WRC

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■			1087-202-0.5 1087-202-0.5D				SM	ALLUVIUM: Olive brown (2.5Y 4/3), moist, dense, silty SAND; fine grained.
5		■		1087-202-5				ML	Dark grayish brown (2.5Y 4/2), moist, stiff, sandy SILT. Drilling became harder.
10		■		1087-202-10				SP	Gray (2.5Y 5/1), wet, dense, poorly graded SAND; fine grained.
15		■		1087-202-15		▽		SM	Dark greenish gray (GLEY2 4/1), wet, very dense, silty SAND; fine grained. Total Depth = 15 feet bgs. Groundwater encountered at 14 feet bgs. Backfilled with bentonite on 1/27/10. Note:
20									

Ninyo & Moore

BORING LOG

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE	FIGURE
207126016	2/10	A-3

DATE DRILLED 1/26/10 BORING NO. 1087-203

GROUND ELEVATION ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger

DRIVE WEIGHT NA DROP NA

SAMPLED BY ZKM LOGGED BY ZKM REVIEWED BY WRC

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■			1087-203-0.5				SM	ALLUVIUM: Dark greenish brown (2.5Y 4/2), wet, silty SAND; fine grained.
		■		1087-203-5					
5								SM	Dark grayish brown (2.5Y 4/2), moist, silty SAND; fine grained.
		■		1087-203-10		▽			
10				1087-203-10D				SP	Light olive brown (2.5Y 5/4), wet, SAND; fine to medium grained; few sea shells.
		■		1087-203-15				SM	Dark gray (2.5Y 4/1), wet, silty SAND.
15									Total Depth = 15 feet bgs. Groundwater encountered at 10 feet bgs. Backfilled with bentonite on 1/25/10. Note:
20									

Ninyo & Moore

BORING LOG

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE	FIGURE
207126016	2/10	A-4

DATE DRILLED 1/27/10 BORING NO. 1087-204

GROUND ELEVATION ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger

DRIVE WEIGHT NA DROP NA

SAMPLED BY ZKM LOGGED BY ZKM REVIEWED BY WRC

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■			1087-204-0.5				SM	ALLUVIUM: Olive brown (2.5Y 4/3), moist, silty SAND; fine grained.
		■		1087-204-5					
5								SM	Olive brown (2.5Y 4/4), moist, dense, silty SAND; fine grained.
		■		1087-204-10		▽			
10								SP	Light olive brown (2.5Y 5/3), wet, dense, SAND; fine grained.
		■		1087-204-15				SW	Olive brown (2.5Y 4/3), wet, dense, well graded SAND; trace sea shells and fine gravel.
15									Total Depth = 15 feet bgs. Groundwater encountered at 9.5 feet bgs. Backfilled with bentonite on 1/27/10.
									Note:
20									

Ninyo & Moore

BORING LOG

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE	FIGURE
207126016	2/10	A-5

DATE DRILLED 1/27/10 BORING NO. 1087-205

GROUND ELEVATION ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger

DRIVE WEIGHT NA DROP NA

SAMPLED BY ZKM LOGGED BY ZKM REVIEWED BY WRC

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■			1087-205-0.5				SM	ALLUVIUM: Olive brown (2.5Y 4/3), moist, dense, silty SAND; fine grained sand.
		■		1087-205.5					
5				1087-205-5D				SM	Olive brown (2.5Y 4/4), moist, dense, silty SAND; fine grained sand.
		■		1087-205-10					
10						▽		SP	Light olive brown (2.5Y 5/3), wet, dense, SAND; fine grained sand.
		■		1087-205-15					Trace fine gravel and sea shells.
15									Total Depth = 15 feet bgs. Groundwater encountered at 11 feet bgs. Backfilled with bentonite on 1/27/10. Note:
20									

Ninyo & Moore

BORING LOG

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE	FIGURE
207126016	2/10	A-6

DATE DRILLED 1/27/10 BORING NO. 1087-206

GROUND ELEVATION ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger

DRIVE WEIGHT NA DROP NA

SAMPLED BY ZKM LOGGED BY ZKM REVIEWED BY WRC

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■			1087-206-0.5 1087-206-0.5D				SM	ALLUVIUM: Olive brown (2.5Y 4/3), dense, moist, silty SAND; fine grained sand; coarse gravel; hydrocarbon odor.
		■		1087-206-5					
5								SM	Olive brown (2.5Y 4/4), moist, dense, silty SAND; fine grained sand; no odor.
		■		1087-206-10		▽			
10								SP	Light olive brown (2.5Y 5/3), wet, dense, SAND; fine grained sand. @ 11': Drilling became harder.
		■		1087-206-15				SP	Olive brown (2.5Y 4/3), wet, dense, SAND; fine to medium grained sand; trace sea shells.
15									Total Depth = 15 feet bgs. Groundwater encountered at 9.5 feet bgs. Backfilled with bentonite on 1/27/10. Note:
20									

Ninyo & Moore

BORING LOG

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE	FIGURE
207126016	2/10	A-7

DATE DRILLED 1/27/10 BORING NO. 1087-207

GROUND ELEVATION ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger

DRIVE WEIGHT NA DROP NA

SAMPLED BY ZKM LOGGED BY ZKM REVIEWED BY WRC

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0		■		1087-207-0.5				SM	ALLUVIUM: Olive brown (2.5Y 4/3), moist, dense, silty SAND; fine grained sand; trace gravel.
		■		1087-207-5				SM	Olive brown (2.5Y 4/4), moist, dense, silty SAND; fine grained; minor iron oxide staining.
10		■		1087-207-10		▽		SP	Very dark gray (GLEY1 3/4), wet, dense, SAND; fine grained sand.
15		■		1087-207-15				ML	Very dark greenish gray (GLEY1 3/1), wet, very stiff, sandy SILT; non- plastic.
20									Total Depth = 15 feet bgs. Groundwater encountered at 12 feet bgs. Backfilled with bentonite on 1/27/10. Note:

Ninyo & Moore

BORING LOG

ROUTE 1
VENTURA COUNTY, CALIFORNIA

PROJECT NO.	DATE	FIGURE
207126016	2/10	A-8

APPENDIX C

LABORATORY REPORTS AND CHAINS-OF-CUSTODY

February 01, 2010

Nancy Anglin
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618

TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 109834

RE: EA 228201, 207126016

Attention: Nancy Anglin

Enclosed are the results for sample(s) received on January 27, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories

Date: *01-Feb-10*

CLIENT: Ninyo & Moore
Project: EA 228201, 207126016
Lab Order: 109834
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109834-001A	1087-101-0.5	Soil	1/26/2010 8:56:00 AM	1/27/2010	2/1/2010
109834-002A	1087-101-1	Soil	1/26/2010 9:00:00 AM	1/27/2010	2/1/2010
109834-003A	1087-101-2	Soil	1/26/2010 9:04:00 AM	1/27/2010	2/1/2010
109834-004A	1087-102-0.5	Soil	1/26/2010 9:13:00 AM	1/27/2010	2/1/2010
109834-005A	1087-102-1	Soil	1/26/2010 9:18:00 AM	1/27/2010	2/1/2010
109834-006A	1087-102-2	Soil	1/26/2010 9:22:00 AM	1/27/2010	2/1/2010
109834-007A	1087-103-0.5	Soil	1/26/2010 9:58:00 AM	1/27/2010	2/1/2010
109834-008A	1087-103-1	Soil	1/26/2010 10:03:00 AM	1/27/2010	2/1/2010
109834-009A	1087-103-2	Soil	1/26/2010 10:14:00 AM	1/27/2010	2/1/2010
109834-010A	1087-103-2D	Soil	1/26/2010 10:14:00 AM	1/27/2010	2/1/2010
109834-011A	1087-104-0.5	Soil	1/26/2010 10:38:00 AM	1/27/2010	2/1/2010
109834-012A	1087-104-1	Soil	1/26/2010 10:42:00 AM	1/27/2010	2/1/2010
109834-013A	1087-104-2	Soil	1/26/2010 10:45:00 AM	1/27/2010	2/1/2010
109834-014A	1087-105-0.5	Soil	1/26/2010 12:10:00 PM	1/27/2010	2/1/2010
109834-015A	1087-105-1	Soil	1/26/2010 12:13:00 PM	1/27/2010	2/1/2010
109834-016A	1087-105-2	Soil	1/26/2010 12:15:00 PM	1/27/2010	2/1/2010
109834-017A	1087-106-0.5	Soil	1/26/2010 12:31:00 PM	1/27/2010	2/1/2010
109834-018A	1087-106-1	Soil	1/26/2010 12:35:00 PM	1/27/2010	2/1/2010
109834-019A	1087-106-2	Soil	1/26/2010 12:39:00 PM	1/27/2010	2/1/2010
109834-020A	1087-107-0.5	Soil	1/26/2010 12:51:00 PM	1/27/2010	2/1/2010
109834-021A	1087-107-0.5D	Soil	1/26/2010 12:51:00 PM	1/27/2010	2/1/2010
109834-022A	1087-107-1	Soil	1/26/2010 12:55:00 PM	1/27/2010	2/1/2010
109834-023A	1087-107-2	Soil	1/26/2010 1:00:00 PM	1/27/2010	2/1/2010
109834-024A	1087-108-0.5	Soil	1/26/2010 1:10:00 PM	1/27/2010	2/1/2010
109834-025A	1087-108-1	Soil	1/26/2010 1:14:00 PM	1/27/2010	2/1/2010
109834-026A	1087-108-2	Soil	1/26/2010 1:18:00 PM	1/27/2010	2/1/2010
109834-027A	1087-109-0.5	Soil	1/26/2010 1:29:00 PM	1/27/2010	2/1/2010
109834-028A	1087-109-1	Soil	1/26/2010 1:33:00 PM	1/27/2010	2/1/2010
109834-029A	1087-109-1D	Soil	1/26/2010 1:33:00 PM	1/27/2010	2/1/2010

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Project: EA 228201, 207126016
Lab Order: 109834
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109834-030A	1087-109-2	Soil	1/26/2010 1:37:00 PM	1/27/2010	2/1/2010
109834-031A	1087-110-0.5	Soil	1/26/2010 1:50:00 PM	1/27/2010	2/1/2010
109834-032A	1087-110-1	Soil	1/26/2010 1:54:00 PM	1/27/2010	2/1/2010
109834-033A	1087-110-2	Soil	1/26/2010 1:58:00 PM	1/27/2010	2/1/2010
109834-034A	1087-111-0.5	Soil	1/26/2010 2:17:00 PM	1/27/2010	2/1/2010
109834-035A	1087-111-1	Soil	1/26/2010 2:21:00 PM	1/27/2010	2/1/2010
109834-036A	1087-111-2	Soil	1/26/2010 2:25:00 PM	1/27/2010	2/1/2010
109834-037A	1087-111-2D	Soil	1/26/2010 2:25:00 PM	1/27/2010	2/1/2010
109834-038A	1087-112-0.5	Soil	1/26/2010 2:50:00 PM	1/27/2010	2/1/2010
109834-039A	1087-112-1	Soil	1/26/2010 2:54:00 PM	1/27/2010	2/1/2010
109834-040A	1087-112-2	Soil	1/26/2010 2:57:00 PM	1/27/2010	2/1/2010
109834-041A	1087-113-0.5	Soil	1/26/2010 3:08:00 PM	1/27/2010	2/1/2010
109834-042A	1087-113-1	Soil	1/26/2010 3:12:00 PM	1/27/2010	2/1/2010
109834-043A	1087-113-1D	Soil	1/26/2010 3:12:00 PM	1/27/2010	2/1/2010
109834-044A	1087-113-2	Soil	1/26/2010 3:15:00 PM	1/27/2010	2/1/2010
109834-045A	1087-114-0.5	Soil	1/26/2010 3:36:00 PM	1/27/2010	2/1/2010
109834-046A	1087-114-1	Soil	1/26/2010 3:44:00 PM	1/27/2010	2/1/2010
109834-047A	1087-114-2	Soil	1/26/2010 3:49:00 PM	1/27/2010	2/1/2010
109834-048A	1087-ERB-5	Liquid	1/26/2010 4:05:00 PM	1/27/2010	2/1/2010

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Project: EA 228201, 207126016
Lab Order: 109834

CASE NARRATIVE

Analytical Comments for EPA 6010B

Samples 109834-010ADUP, 109834-020ADUP, 109834-030ADUP, 109834-040ADUP and 109834-047ADUP, RPD for Sample Duplicate (DUP) is outside criteria; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-101-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 8:56:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 11:42 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-101-1
Lab Order:	109834	**Collection Date:**	1/26/2010 9:00:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate: **1/28/2010**		Analyst: **CL**
Lead	6.1	0.11	5.0		mg/Kg	1	1/29/2010 11:42 AM
PH							
				EPA 9045C			
RunID: **WETCHEM_100201A**	QC Batch: **R117521**				PrepDate:		Analyst: **CBB**
pH	7.8	0.10	0.10		pH Units	1	2/1/2010

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-101-2
Lab Order:	109834	**Collection Date:**	1/26/2010 9:04:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.1	0.11	5.0		mg/Kg	1	1/29/2010 11:43 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-102-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 9:13:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-004A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 11:44 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-102-1
Lab Order:	109834	**Collection Date:**	1/26/2010 9:18:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 11:45 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-102-2
Lab Order:	109834	**Collection Date:**	1/26/2010 9:22:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-006A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 11:45 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-103-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 9:58:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	16	0.11	5.0		mg/Kg	1	1/29/2010 11:46 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-103-1
Lab Order:	109834	**Collection Date:**	1/26/2010 10:03:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-008A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.8	0.11	5.0		mg/Kg	1	1/29/2010 11:47 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-103-2
Lab Order:	109834	**Collection Date:**	1/26/2010 10:14:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-009A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	6.6	0.11	5.0		mg/Kg	1	1/29/2010 11:50 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-103-2D
Lab Order:	109834	**Collection Date:**	1/26/2010 10:14:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-010A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.6	0.11	5.0		mg/Kg	1	1/29/2010 11:51 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-104-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 10:38:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-011A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	11	0.11	5.0		mg/Kg	1	1/29/2010 11:55 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-104-1
Lab Order:	109834	**Collection Date:**	1/26/2010 10:42:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-012A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 11:55 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-104-2
Lab Order:	109834	**Collection Date:**	1/26/2010 10:45:00 AM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-013A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 11:56 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-105-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 12:10:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-014A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	6.4	0.11	5.0		mg/Kg	1	1/29/2010 11:57 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-105-1
Lab Order:	109834	**Collection Date:**	1/26/2010 12:13:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-015A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 11:58 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-105-2
Lab Order:	109834	**Collection Date:**	1/26/2010 12:15:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-016A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate: **1/28/2010**		Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:01 PM
PH							
				EPA 9045C			
RunID: **WETCHEM_100201A**	QC Batch: **R117521**				PrepDate:		Analyst: **CBB**
pH	7.7	0.10	0.10		pH Units	1	2/1/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-106-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 12:31:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-017A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	6.6	0.11	5.0		mg/Kg	1	1/29/2010 12:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-106-1
Lab Order:	109834	**Collection Date:**	1/26/2010 12:35:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-018A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:02 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-106-2
Lab Order:	109834	**Collection Date:**	1/26/2010 12:39:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-019A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:03 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-107-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 12:51:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-020A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129A**	QC Batch: **61418**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	20	0.11	5.0		mg/Kg	1	1/29/2010 12:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-107-0.5D
Lab Order:	109834	**Collection Date:**	1/26/2010 12:51:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-021A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	47	0.11	5.0		mg/Kg	1	1/29/2010 12:11 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-107-1
Lab Order:	109834	**Collection Date:**	1/26/2010 12:55:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-022A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	6.4	0.11	5.0		mg/Kg	1	1/29/2010 12:12 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-107-2
Lab Order:	109834	**Collection Date:**	1/26/2010 1:00:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-023A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:13 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-108-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 1:10:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-024A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate: **1/28/2010**		Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:14 PM
PH							
				EPA 9045C			
RunID: **WETCHEM_100201A**	QC Batch: **R117521**				PrepDate:		Analyst: **CBB**
pH	7.9	0.10	0.10		pH Units	1	2/1/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-108-1
Lab Order:	109834	**Collection Date:**	1/26/2010 1:14:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-025A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.4	0.11	5.0		mg/Kg	1	1/29/2010 12:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-108-2
Lab Order:	109834	**Collection Date:**	1/26/2010 1:18:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-026A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:15 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-109-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 1:29:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-027A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-109-1
Lab Order:	109834	**Collection Date:**	1/26/2010 1:33:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-028A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:17 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-109-1D
Lab Order:	109834	**Collection Date:**	1/26/2010 1:33:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-029A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:18 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-109-2
Lab Order:	109834	**Collection Date:**	1/26/2010 1:37:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-030A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:19 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-110-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 1:50:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-031A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	13	0.11	5.0		mg/Kg	1	1/29/2010 12:24 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-110-1
Lab Order:	109834	**Collection Date:**	1/26/2010 1:54:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-032A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:25 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-110-2
Lab Order:	109834	**Collection Date:**	1/26/2010 1:58:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-033A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:26 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-111-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 2:17:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-034A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	23	0.11	5.0		mg/Kg	1	1/29/2010 12:27 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-111-1
Lab Order:	109834	**Collection Date:**	1/26/2010 2:21:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-035A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate: **1/28/2010**		Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 03:50 PM
PH							
				EPA 9045C			
RunID: **WETCHEM_100201A**	QC Batch: **R117521**				PrepDate:		Analyst: **CBB**
pH	8.0	0.10	0.10		pH Units	1	2/1/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-111-2
Lab Order:	109834	**Collection Date:**	1/26/2010 2:25:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-036A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.1	0.11	5.0		mg/Kg	1	1/29/2010 12:48 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-111-2D
Lab Order:	109834	**Collection Date:**	1/26/2010 2:25:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-037A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:49 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-112-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 2:50:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-038A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.8	0.11	5.0		mg/Kg	1	1/29/2010 12:52 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-112-1
Lab Order:	109834	**Collection Date:**	1/26/2010 2:54:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-039A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 12:53 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-112-2
Lab Order:	109834	**Collection Date:**	1/26/2010 2:57:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-040A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129B**	QC Batch: **61419**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.8	0.11	5.0		mg/Kg	1	1/29/2010 12:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-113-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 3:08:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-041A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129C**	QC Batch: **61420**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.9	0.11	5.0		mg/Kg	1	1/29/2010 12:59 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-113-1
Lab Order:	109834	**Collection Date:**	1/26/2010 3:12:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-042A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129C**	QC Batch: **61420**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 01:00 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-113-1D
Lab Order:	109834	**Collection Date:**	1/26/2010 3:12:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-043A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129C**	QC Batch: **61420**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 01:03 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-113-2
Lab Order:	109834	**Collection Date:**	1/26/2010 3:15:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-044A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129C**	QC Batch: **61420**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 01:04 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-114-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 3:36:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-045A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
EPA 3050M			**EPA 6010B**				
RunID: **ICP6_100129C**	QC Batch: **61420**				PrepDate: **1/28/2010**		Analyst: **CL**
Lead	12	0.11	5.0		mg/Kg	1	1/29/2010 01:05 PM
PH							
EPA 9045C							
RunID: **WETCHEM_100201A**	QC Batch: **R117521**				PrepDate:		Analyst: **CBB**
pH	7.8	0.10	0.10		pH Units	1	2/1/2010

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-114-1
Lab Order:	109834	**Collection Date:**	1/26/2010 3:44:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-046A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129C**	QC Batch: **61420**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	5.2	0.11	5.0		mg/Kg	1	1/29/2010 01:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-114-2
Lab Order:	109834	**Collection Date:**	1/26/2010 3:49:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-047A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3050M			**EPA 6010B**			
RunID: **ICP6_100129C**	QC Batch: **61420**				PrepDate:	**1/28/2010**	Analyst: **CL**
Lead	ND	0.11	5.0		mg/Kg	1	1/29/2010 01:06 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *01-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-5
Lab Order:	109834	**Collection Date:**	1/26/2010 4:05:00 PM
Project:	EA 228201, 207126016	**Matrix:**	LIQUID
Lab ID:	109834-048A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **ICP8_100201B**	QC Batch: **61462**				PrepDate:	**1/29/2010**	Analyst: **CL**
Lead	ND	0.0046	0.25		mg/L	1	2/1/2010 09:58 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-61418A**	SampType: **MBLK**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117459**
Client ID: **PBS**	Batch ID: **61418**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-61418**	SampType: **LCS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117459**
Client ID: **LCSS**	Batch ID: **61418**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865023**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	273.566	5.0	250.0	0	109	80	120				

Sample ID: **109834-010ADUP**	SampType: **DUP**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117459**
Client ID: **1087-103-2D**	Batch ID: **61418**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.955	5.0						5.555	22.4	20	R

Sample ID: **109834-010AMS**	SampType: **MS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117459**
Client ID: **1087-103-2D**	Batch ID: **61418**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865035**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	209.077	5.0	250.0	5.555	81.4	33	120				

Sample ID: **MB-61418B**	SampType: **MBLK**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117459**
Client ID: **PBS**	Batch ID: **61418**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories

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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **109834-020ADUP**	SampType: **DUP**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117459**
Client ID: **1087-107-0.5**	Batch ID: **61418**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865047**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	36.047	5.0						19.86	57.9	20	R

Sample ID: **109834-020AMS**	SampType: **MS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117459**
Client ID: **1087-107-0.5**	Batch ID: **61418**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865048**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	215.653	5.0	250.0	19.86	78.3	33	120				

Sample ID: **109834-020AMSD**	SampType: **MSD**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117459**
Client ID: **1087-107-0.5**	Batch ID: **61418**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865049**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	228.630	5.0	250.0	19.86	83.5	33	120	215.7	5.84	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-61419A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117461**
Client ID: **PBS** Batch ID: **61419** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-61419** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117461**
Client ID: **PBS** Batch ID: **61419** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865051**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	261.116	5.0	0	0	0	0	0				

Sample ID: **109834-030ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117461**
Client ID: **1087-109-2** Batch ID: **61419** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.474	5.0						3.537	58.7	20	R

Sample ID: **109834-030AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117461**
Client ID: **1087-109-2** Batch ID: **61419** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	191.901	5.0	250.0	3.537	75.3	33	120				

Sample ID: **MB-61419B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117461**
Client ID: **PBS** Batch ID: **61419** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **109834-040ADUP**	SampType: **DUP**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117461**
Client ID: **1087-112-2**	Batch ID: **61419**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.684	5.0						5.833	27.4	20	R

Sample ID: **109834-040AMS**	SampType: **MS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117461**
Client ID: **1087-112-2**	Batch ID: **61419**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865075**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	201.571	5.0	250.0	5.833	78.3	33	120				

Sample ID: **109834-040AMSD**	SampType: **MSD**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **1/28/2010**	RunNo: **117461**
Client ID: **1087-112-2**	Batch ID: **61419**	TestNo: **EPA 6010B**	**EPA 3050M**	Analysis Date: **1/29/2010**	SeqNo: **1865076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	200.426	5.0	250.0	5.833	77.8	33	120	201.6	0.569	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-61420A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117462**
Client ID: **PBS** Batch ID: **61420** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865102**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-61420** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117462**
Client ID: **LCSS** Batch ID: **61420** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	259.962	5.0	250.0	0	104	80	120				

Sample ID: **109834-047ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117462**
Client ID: **1087-114-2** Batch ID: **61420** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.152	5.0						4.527	44.9	20	R

Sample ID: **109834-047AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117462**
Client ID: **1087-114-2** Batch ID: **61420** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865112**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	207.924	5.0	250.0	4.527	81.4	33	120				

Sample ID: **109834-047AMSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/28/2010** RunNo: **117462**
Client ID: **1087-114-2** Batch ID: **61420** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/29/2010** SeqNo: **1865113**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	200.262	5.0	250.0	4.527	78.3	33	120	207.9	3.75	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **LCS-61462** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117505**
Client ID: **LCSW** Batch ID: **61462** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1865975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.919	0.25	1.000	0	91.9	85	115				

Sample ID: **109816-002C-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117505**
Client ID: **ZZZZZZ** Batch ID: **61462** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1865980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **109816-002C-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117505**
Client ID: **ZZZZZZ** Batch ID: **61462** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1865981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.347	0.25	2.500	0	93.9	71	121				

Sample ID: **109816-002C-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117505**
Client ID: **ZZZZZZ** Batch ID: **61462** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1865982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.400	0.25	2.500	0	96.0	71	121	2.347	2.23	20	

Sample ID: **MB-61462** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117505**
Client ID: **PBW** Batch ID: **61462** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1865983**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **109834-002ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **117521**
Client ID: **1087-101-1** Batch ID: **R117521** TestNo: **EPA 9045C** Analysis Date: **2/1/2010** SeqNo: **1866491**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.950	0.10						7.850	1.27	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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LABORATORY: Advanced Technology Laboratories, 3275 Walnut Avenue, Signal Hill, CA 90807, (562) 989-4045 / fax (562) 989-4040	SITE: Br. Nos. 52-139 and 52-140, Ventura County, CA, EA 228201, Project Number 207126016	Ninyo & Moore, 475 Goddard, Suite 200, Irvine, CA 92618, (949) 753-7070 / fax (949) 753-7071

Special Instructions: Sample: Jonny [illegible]

Homogenize the samples

If total lead is <1,000 mg/kg, but >/= 50 mg/kg, run STLC WET test (citric acid extraction EPA Method 7000 series)

If STLC WET >/= 5 mg/l, run STLC-DI (DI extraction EPA Method 7000 series)

If total lead is >/=1,000 mg/kg or >/=5 mg/l STLC WET, run TCLP (EPA Method 7000 series for leachable lead)

Relinquished by (name/date and time):	Received by (name/date and time):
Jonny [illegible] 1/27/10 08:10	[illegible] 1/27/10 8:0
Relinquished by (name/date and time):	Received by (name/date and time):
Relinquished by (name/date and time):	Received by (name/date and time):
Relinquished by (name/date and time):	Received by (name/date and time):

Lab No.	Sample I. D.	Date	Time	Total Lead EPA Method 6010	pH EPA Method 9045	Sample Type	Turn-Around Time	Container Type
	1087- 101-0.5	1/26/10	08:56	X		Soil	72-hour	Glass Jar
	1087- 101-1		09:00	X	X	Soil	72-hour	Glass Jar
	1087- 101-2		09:04	X		Soil	72-hour	Glass Jar
	1087- 102-0.5		09:13	X		Soil	72-hour	Glass Jar
	1087- 102-1		09:18	X		Soil	72-hour	Glass Jar
	1087- 102-2		09:22	X		Soil	72-hour	Glass Jar
	1087- 103-0.5		09:58	X		Soil	72-hour	Glass Jar
	1087- 103-1		10:03	X		Soil	72-hour	Glass Jar
	1087- 103-2		10:14	X		Soil	72-hour	Glass Jar
	1087- 103-2D		10:14	X		Soil	72-hour	Glass Jar
	1087- 104-0.5		10:38	X		Soil	72-hour	Glass Jar
	1087- 104-1		10:42	X		Soil	72-hour	Glass Jar
	1087- 104-2		10:45	X		Soil	72-hour	Glass Jar
	1087- 105-0.5		12:10	X		Soil	72-hour	Glass Jar
	1087- 105-1		12:13	X		Soil	72-hour	Glass Jar
	1087- 105-2		12:15	X	X	Soil	72-hour	Glass Jar
	1087- 106-0.5		12:31	X		Soil	72-hour	Glass Jar
	1087- 106-1		12:35	X		Soil	72-hour	Glass Jar
	1087- 106-2		12:39	X		Soil	72-hour	Glass Jar
	1087- 107-0.5		12:51	X		Soil	72-hour	Glass Jar
	1087- 107-0.5D		12:51	X		Soil	72-hour	Glass Jar
	1087- 107-1		12:55	X		Soil	72-hour	Glass Jar
	1087- 107-2		13:00	X		Soil	72-hour	Glass Jar
	1087- 108-0.5		13:10	X	X	Soil	72-hour	Glass Jar
	1087- 108-1		13:14	X		Soil	72-hour	Glass Jar
	1087- 108-2		13:18	X		Soil	72-hour	Glass Jar
	1087- 109-0.5		13:29	X		Soil	72-hour	Glass Jar
	1087- 109-1		13:33	X		Soil	72-hour	Glass Jar
	1087- 109-1D		13:33	X		Soil	72-hour	Glass Jar
	1087- 109-2		13:37	X		Soil	72-hour	Glass Jar
	1087- 110-0.5		13:50	X		Soil	72-hour	Glass Jar
	1087- 110-1		13:54	X		Soil	72-hour	Glass Jar
	1087- 110-2		13:58	X		Soil	72-hour	Glass Jar
	1087- 111-0.5		14:17	X		Soil	72-hour	Glass Jar
	1087- 111-1		14:21	X	X	Soil	72-hour	Glass Jar
	1087- 111-2		14:25	X		Soil	72-hour	Glass Jar
	1087- 111-2D		14:25	X		Soil	72-hour	Glass Jar
	1087- 112-0.5		14:50	X		Soil	72-hour	Glass Jar
	1087- 112-1		14:54	X		Soil	72-hour	Glass Jar
	1087- 112-2		14:57	X		Soil	72-hour	Glass Jar
	1087- 113-0.5		15:08	X		Soil	72-hour	Glass Jar
	1087- 113-1		15:12	X		Soil	72-hour	Glass Jar
	1087- 113-1D		15:12	X		Soil	72-hour	Glass Jar
	1087- 113-2		15:15	X		Soil	72-hour	Glass Jar
	1087- 114-0.5		15:36	X	X	Soil	72-hour	Glass Jar
	1087- 114-1		15:44	X		Soil	72-hour	Glass Jar
	1087- 114-2		15:49	X		Soil	72-hour	Glass Jar
	1087-			X		Soil	72-hour	Glass Jar
	1087-			X		Soil	72-hour	Glass Jar
	~~EB~~ 1087-ERB-5		16:05	X		liquid	72-hour	Poly

Page 1 of 1

no cooler

February 22, 2010

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 109834

Nancy Anglin
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618

TEL: (949) 753-7070
FAX: (949) 753-7071

RE: EA 228201, 207126016

Attention: Nancy Anglin

Enclosed are the results for sample(s) received on January 27, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

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

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *22-Feb-10*

CLIENT: Ninyo & Moore
Project: EA 228201, 207126016
Lab Order: 109834
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109834-001A	1087-101-0.5	Soil	1/26/2010 8:56:00 AM	1/27/2010	2/22/2010
109834-002A	1087-101-1	Soil	1/26/2010 9:00:00 AM	1/27/2010	2/22/2010
109834-003A	1087-101-2	Soil	1/26/2010 9:04:00 AM	1/27/2010	2/22/2010
109834-004A	1087-102-0.5	Soil	1/26/2010 9:13:00 AM	1/27/2010	2/22/2010
109834-005A	1087-102-1	Soil	1/26/2010 9:18:00 AM	1/27/2010	2/22/2010
109834-006A	1087-102-2	Soil	1/26/2010 9:22:00 AM	1/27/2010	2/22/2010
109834-007A	1087-103-0.5	Soil	1/26/2010 9:58:00 AM	1/27/2010	2/22/2010
109834-008A	1087-103-1	Soil	1/26/2010 10:03:00 AM	1/27/2010	2/22/2010
109834-009A	1087-103-2	Soil	1/26/2010 10:14:00 AM	1/27/2010	2/22/2010
109834-010A	1087-103-2D	Soil	1/26/2010 10:14:00 AM	1/27/2010	2/22/2010
109834-011A	1087-104-0.5	Soil	1/26/2010 10:38:00 AM	1/27/2010	2/22/2010
109834-012A	1087-104-1	Soil	1/26/2010 10:42:00 AM	1/27/2010	2/22/2010
109834-013A	1087-104-2	Soil	1/26/2010 10:45:00 AM	1/27/2010	2/22/2010
109834-014A	1087-105-0.5	Soil	1/26/2010 12:10:00 PM	1/27/2010	2/22/2010
109834-015A	1087-105-1	Soil	1/26/2010 12:13:00 PM	1/27/2010	2/22/2010
109834-016A	1087-105-2	Soil	1/26/2010 12:15:00 PM	1/27/2010	2/22/2010
109834-017A	1087-106-0.5	Soil	1/26/2010 12:31:00 PM	1/27/2010	2/22/2010
109834-018A	1087-106-1	Soil	1/26/2010 12:35:00 PM	1/27/2010	2/22/2010
109834-019A	1087-106-2	Soil	1/26/2010 12:39:00 PM	1/27/2010	2/22/2010
109834-020A	1087-107-0.5	Soil	1/26/2010 12:51:00 PM	1/27/2010	2/22/2010
109834-021A	1087-107-0.5D	Soil	1/26/2010 12:51:00 PM	1/27/2010	2/22/2010
109834-022A	1087-107-1	Soil	1/26/2010 12:55:00 PM	1/27/2010	2/22/2010
109834-023A	1087-107-2	Soil	1/26/2010 1:00:00 PM	1/27/2010	2/22/2010
109834-024A	1087-108-0.5	Soil	1/26/2010 1:10:00 PM	1/27/2010	2/22/2010
109834-025A	1087-108-1	Soil	1/26/2010 1:14:00 PM	1/27/2010	2/22/2010
109834-026A	1087-108-2	Soil	1/26/2010 1:18:00 PM	1/27/2010	2/22/2010
109834-027A	1087-109-0.5	Soil	1/26/2010 1:29:00 PM	1/27/2010	2/22/2010
109834-028A	1087-109-1	Soil	1/26/2010 1:33:00 PM	1/27/2010	2/22/2010
109834-029A	1087-109-1D	Soil	1/26/2010 1:33:00 PM	1/27/2010	2/22/2010

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Project: EA 228201, 207126016
Lab Order: 109834
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109834-030A	1087-109-2	Soil	1/26/2010 1:37:00 PM	1/27/2010	2/22/2010
109834-031A	1087-110-0.5	Soil	1/26/2010 1:50:00 PM	1/27/2010	2/22/2010
109834-032A	1087-110-1	Soil	1/26/2010 1:54:00 PM	1/27/2010	2/22/2010
109834-033A	1087-110-2	Soil	1/26/2010 1:58:00 PM	1/27/2010	2/22/2010
109834-034A	1087-111-0.5	Soil	1/26/2010 2:17:00 PM	1/27/2010	2/22/2010
109834-035A	1087-111-1	Soil	1/26/2010 2:21:00 PM	1/27/2010	2/22/2010
109834-036A	1087-111-2	Soil	1/26/2010 2:25:00 PM	1/27/2010	2/22/2010
109834-037A	1087-111-2D	Soil	1/26/2010 2:25:00 PM	1/27/2010	2/22/2010
109834-038A	1087-112-0.5	Soil	1/26/2010 2:50:00 PM	1/27/2010	2/22/2010
109834-039A	1087-112-1	Soil	1/26/2010 2:54:00 PM	1/27/2010	2/22/2010
109834-040A	1087-112-2	Soil	1/26/2010 2:57:00 PM	1/27/2010	2/22/2010
109834-041A	1087-113-0.5	Soil	1/26/2010 3:08:00 PM	1/27/2010	2/22/2010
109834-042A	1087-113-1	Soil	1/26/2010 3:12:00 PM	1/27/2010	2/22/2010
109834-043A	1087-113-1D	Soil	1/26/2010 3:12:00 PM	1/27/2010	2/22/2010
109834-044A	1087-113-2	Soil	1/26/2010 3:15:00 PM	1/27/2010	2/22/2010
109834-045A	1087-114-0.5	Soil	1/26/2010 3:36:00 PM	1/27/2010	2/22/2010
109834-046A	1087-114-1	Soil	1/26/2010 3:44:00 PM	1/27/2010	2/22/2010
109834-047A	1087-114-2	Soil	1/26/2010 3:49:00 PM	1/27/2010	2/22/2010
109834-048A	1087-ERB-5	Liquid	1/26/2010 4:05:00 PM	1/27/2010	2/22/2010

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ANALYTICAL RESULTS

Print Date: *22-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-103-0.5
Lab Order: 109834
Collection Date: 1/26/2010 9:58:00 AM
Project: EA 228201, 207126016
Matrix: SOIL
Lab ID: 109834-007A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_100216B**	QC Batch: **61935**				PrepDate: **2/15/2010**		Analyst: **CL**
Antimony	ND	0.28	2.0		mg/Kg	1	2/16/2010 12:54 PM
Arsenic	2.0	0.27	1.0		mg/Kg	1	2/16/2010 12:54 PM
Barium	55	0.13	1.0		mg/Kg	1	2/16/2010 12:54 PM
Beryllium	ND	0.055	1.0		mg/Kg	1	2/16/2010 12:54 PM
Cadmium	ND	0.0064	1.0		mg/Kg	1	2/16/2010 12:54 PM
Chromium	11	0.088	1.0		mg/Kg	1	2/16/2010 12:54 PM
Cobalt	2.3	0.014	1.0		mg/Kg	1	2/16/2010 12:54 PM
Copper	13	0.26	2.0		mg/Kg	1	2/16/2010 12:54 PM
Molybdenum	ND	0.043	1.0		mg/Kg	1	2/16/2010 12:54 PM
Nickel	9.1	0.032	1.0		mg/Kg	1	2/16/2010 12:54 PM
Selenium	ND	0.43	1.0		mg/Kg	1	2/16/2010 12:54 PM
Silver	ND	0.017	1.0		mg/Kg	1	2/16/2010 12:54 PM
Thallium	ND	0.23	1.0		mg/Kg	1	2/16/2010 12:54 PM
Vanadium	17	0.019	1.0		mg/Kg	1	2/16/2010 12:54 PM
Zinc	36	0.19	1.0		mg/Kg	1	2/16/2010 12:54 PM
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_100217C**	QC Batch: **61937**				PrepDate: **2/15/2010**		Analyst: **IL**
Lead	2.0	0.21	0.25		mg/L	1	2/17/2010 12:32 PM
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_100217D**	QC Batch: **62005**				PrepDate: **2/17/2010**		Analyst: **IL**
Lead	ND	0.21	0.25		mg/L	1	2/17/2010 03:34 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_100215A**	QC Batch: **61943**				PrepDate: **2/15/2010**		Analyst: **IL**
Mercury	ND	0.021	0.10		mg/Kg	1	2/15/2010 03:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *22-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-104-0.5
Lab Order: 109834
Collection Date: 1/26/2010 10:38:00 AM
Project: EA 228201, 207126016
Matrix: SOIL
Lab ID: 109834-011A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_100216B**	QC Batch: **61935**				PrepDate: **2/15/2010**		Analyst: **CL**
Antimony	ND	0.28	2.0		mg/Kg	1	2/16/2010 01:08 PM
Arsenic	2.2	0.27	1.0		mg/Kg	1	2/16/2010 01:08 PM
Barium	82	0.13	1.0		mg/Kg	1	2/16/2010 01:08 PM
Beryllium	ND	0.055	1.0		mg/Kg	1	2/16/2010 01:08 PM
Cadmium	ND	0.0064	1.0		mg/Kg	1	2/16/2010 01:08 PM
Chromium	12	0.088	1.0		mg/Kg	1	2/16/2010 01:08 PM
Cobalt	3.1	0.014	1.0		mg/Kg	1	2/16/2010 01:08 PM
Copper	11	0.26	2.0		mg/Kg	1	2/16/2010 01:08 PM
Molybdenum	ND	0.043	1.0		mg/Kg	1	2/16/2010 01:08 PM
Nickel	16	0.032	1.0		mg/Kg	1	2/16/2010 01:08 PM
Selenium	ND	0.43	1.0		mg/Kg	1	2/16/2010 01:08 PM
Silver	ND	0.017	1.0		mg/Kg	1	2/16/2010 01:08 PM
Thallium	ND	0.23	1.0		mg/Kg	1	2/16/2010 01:08 PM
Vanadium	20	0.019	1.0		mg/Kg	1	2/16/2010 01:08 PM
Zinc	25	0.19	1.0		mg/Kg	1	2/16/2010 01:08 PM
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_100217C**	QC Batch: **61937**				PrepDate: **2/15/2010**		Analyst: **IL**
Lead	1.1	0.21	0.25		mg/L	1	2/17/2010 12:33 PM
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_100217D**	QC Batch: **62005**				PrepDate: **2/17/2010**		Analyst: **IL**
Lead	ND	0.21	0.25		mg/L	1	2/17/2010 03:34 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_100215A**	QC Batch: **61943**				PrepDate: **2/15/2010**		Analyst: **IL**
Mercury	ND	0.021	0.10		mg/Kg	1	2/15/2010 03:45 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *22-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-107-0.5
Lab Order: 109834
Collection Date: 1/26/2010 12:51:00 PM
Project: EA 228201, 207126016
Matrix: SOIL
Lab ID: 109834-020A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_100216B**	QC Batch: **61935**				PrepDate:	**2/15/2010**	Analyst: **CL**
Antimony	ND	0.28	2.0		mg/Kg	1	2/16/2010 01:11 PM
Arsenic	ND	0.27	1.0		mg/Kg	1	2/16/2010 01:11 PM
Barium	43	0.13	1.0		mg/Kg	1	2/16/2010 01:11 PM
Beryllium	ND	0.055	1.0		mg/Kg	1	2/16/2010 01:11 PM
Cadmium	ND	0.0064	1.0		mg/Kg	1	2/16/2010 01:11 PM
Chromium	7.6	0.088	1.0		mg/Kg	1	2/16/2010 01:11 PM
Cobalt	1.9	0.014	1.0		mg/Kg	1	2/16/2010 01:11 PM
Copper	4.8	0.26	2.0		mg/Kg	1	2/16/2010 01:11 PM
Molybdenum	ND	0.043	1.0		mg/Kg	1	2/16/2010 01:11 PM
Nickel	9.8	0.032	1.0		mg/Kg	1	2/16/2010 01:11 PM
Selenium	ND	0.43	1.0		mg/Kg	1	2/16/2010 01:11 PM
Silver	ND	0.017	1.0		mg/Kg	1	2/16/2010 01:11 PM
Thallium	ND	0.23	1.0		mg/Kg	1	2/16/2010 01:11 PM
Vanadium	10	0.019	1.0		mg/Kg	1	2/16/2010 01:11 PM
Zinc	14	0.19	1.0		mg/Kg	1	2/16/2010 01:11 PM
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_100217C**	QC Batch: **61937**				PrepDate:	**2/15/2010**	Analyst: **IL**
Lead	0.72	0.21	0.25		mg/L	1	2/17/2010 12:33 PM
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_100217D**	QC Batch: **62005**				PrepDate:	**2/17/2010**	Analyst: **IL**
Lead	ND	0.21	0.25		mg/L	1	2/17/2010 03:35 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_100215A**	QC Batch: **61943**				PrepDate:	**2/15/2010**	Analyst: **IL**
Mercury	ND	0.021	0.10		mg/Kg	1	2/15/2010 03:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *22-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-107-0.5D
Lab Order: 109834
Collection Date: 1/26/2010 12:51:00 PM
Project: EA 228201, 207126016
Matrix: SOIL
Lab ID: 109834-021A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_100216B**	QC Batch: **61935**				PrepDate:	**2/15/2010**	Analyst: **CL**
Antimony	ND	0.28	2.0		mg/Kg	1	2/16/2010 01:16 PM
Arsenic	2.2	0.27	1.0		mg/Kg	1	2/16/2010 01:16 PM
Barium	86	0.13	1.0		mg/Kg	1	2/16/2010 01:16 PM
Beryllium	ND	0.055	1.0		mg/Kg	1	2/16/2010 01:16 PM
Cadmium	ND	0.0064	1.0		mg/Kg	1	2/16/2010 01:16 PM
Chromium	14	0.088	1.0		mg/Kg	1	2/16/2010 01:16 PM
Cobalt	3.5	0.014	1.0		mg/Kg	1	2/16/2010 01:16 PM
Copper	9.6	0.26	2.0		mg/Kg	1	2/16/2010 01:16 PM
Molybdenum	ND	0.043	1.0		mg/Kg	1	2/16/2010 01:16 PM
Nickel	18	0.032	1.0		mg/Kg	1	2/16/2010 01:16 PM
Selenium	ND	0.43	1.0		mg/Kg	1	2/16/2010 01:16 PM
Silver	ND	0.017	1.0		mg/Kg	1	2/16/2010 01:16 PM
Thallium	ND	0.23	1.0		mg/Kg	1	2/16/2010 01:16 PM
Vanadium	19	0.019	1.0		mg/Kg	1	2/16/2010 01:16 PM
Zinc	25	0.19	1.0		mg/Kg	1	2/16/2010 01:16 PM
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_100217C**	QC Batch: **61937**				PrepDate:	**2/15/2010**	Analyst: **IL**
Lead	0.89	0.21	0.25		mg/L	1	2/17/2010 12:34 PM
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_100217D**	QC Batch: **62005**				PrepDate:	**2/17/2010**	Analyst: **IL**
Lead	ND	0.21	0.25		mg/L	1	2/17/2010 03:35 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_100215A**	QC Batch: **61943**				PrepDate:	**2/15/2010**	Analyst: **IL**
Mercury	ND	0.021	0.10		mg/Kg	1	2/15/2010 03:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *22-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-110-0.5
Lab Order: 109834
Collection Date: 1/26/2010 1:50:00 PM
Project: EA 228201, 207126016
Matrix: SOIL
Lab ID: 109834-031A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_100216B**	QC Batch: **61935**				PrepDate:	**2/15/2010**	Analyst: **CL**
Antimony	ND	0.28	2.0		mg/Kg	1	2/16/2010 01:20 PM
Arsenic	1.5	0.27	1.0		mg/Kg	1	2/16/2010 01:20 PM
Barium	51	0.13	1.0		mg/Kg	1	2/16/2010 01:20 PM
Beryllium	ND	0.055	1.0		mg/Kg	1	2/16/2010 01:20 PM
Cadmium	ND	0.0064	1.0		mg/Kg	1	2/16/2010 01:20 PM
Chromium	11	0.088	1.0		mg/Kg	1	2/16/2010 01:20 PM
Cobalt	3.6	0.014	1.0		mg/Kg	1	2/16/2010 01:20 PM
Copper	21	0.26	2.0		mg/Kg	1	2/16/2010 01:20 PM
Molybdenum	ND	0.043	1.0		mg/Kg	1	2/16/2010 01:20 PM
Nickel	12	0.032	1.0		mg/Kg	1	2/16/2010 01:20 PM
Selenium	ND	0.43	1.0		mg/Kg	1	2/16/2010 01:20 PM
Silver	ND	0.017	1.0		mg/Kg	1	2/16/2010 01:20 PM
Thallium	ND	0.23	1.0		mg/Kg	1	2/16/2010 01:20 PM
Vanadium	17	0.019	1.0		mg/Kg	1	2/16/2010 01:20 PM
Zinc	22	0.19	1.0		mg/Kg	1	2/16/2010 01:20 PM
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_100217C**	QC Batch: **61937**				PrepDate:	**2/15/2010**	Analyst: **IL**
Lead	0.85	0.21	0.25		mg/L	1	2/17/2010 12:34 PM
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_100217D**	QC Batch: **62005**				PrepDate:	**2/17/2010**	Analyst: **IL**
Lead	ND	0.21	0.25		mg/L	1	2/17/2010 03:36 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_100215A**	QC Batch: **61943**				PrepDate:	**2/15/2010**	Analyst: **IL**
Mercury	0.13	0.021	0.10		mg/Kg	1	2/15/2010 03:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *22-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-111-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 2:17:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-034A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_100216B**	QC Batch: **61935**				PrepDate:	**2/15/2010**	Analyst: **CL**
Antimony	ND	0.28	2.0		mg/Kg	1	2/16/2010 01:24 PM
Arsenic	3.6	0.27	1.0		mg/Kg	1	2/16/2010 01:24 PM
Barium	90	0.13	1.0		mg/Kg	1	2/16/2010 01:24 PM
Beryllium	ND	0.055	1.0		mg/Kg	1	2/16/2010 01:24 PM
Cadmium	ND	0.0064	1.0		mg/Kg	1	2/16/2010 01:24 PM
Chromium	16	0.088	1.0		mg/Kg	1	2/16/2010 01:24 PM
Cobalt	4.2	0.014	1.0		mg/Kg	1	2/16/2010 01:24 PM
Copper	12	0.26	2.0		mg/Kg	1	2/16/2010 01:24 PM
Molybdenum	ND	0.043	1.0		mg/Kg	1	2/16/2010 01:24 PM
Nickel	26	0.032	1.0		mg/Kg	1	2/16/2010 01:24 PM
Selenium	ND	0.43	1.0		mg/Kg	1	2/16/2010 01:24 PM
Silver	ND	0.017	1.0		mg/Kg	1	2/16/2010 01:24 PM
Thallium	ND	0.23	1.0		mg/Kg	1	2/16/2010 01:24 PM
Vanadium	20	0.019	1.0		mg/Kg	1	2/16/2010 01:24 PM
Zinc	31	0.19	1.0		mg/Kg	1	2/16/2010 01:24 PM
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_100217C**	QC Batch: **61937**				PrepDate:	**2/15/2010**	Analyst: **IL**
Lead	0.72	0.21	0.25		mg/L	1	2/17/2010 12:34 PM
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_100217D**	QC Batch: **62005**				PrepDate:	**2/17/2010**	Analyst: **IL**
Lead	ND	0.21	0.25		mg/L	1	2/17/2010 03:37 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_100215A**	QC Batch: **61943**				PrepDate:	**2/15/2010**	Analyst: **IL**
Mercury	ND	0.021	0.10		mg/Kg	1	2/15/2010 03:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *22-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-114-0.5
Lab Order:	109834	**Collection Date:**	1/26/2010 3:36:00 PM
Project:	EA 228201, 207126016	**Matrix:**	SOIL
Lab ID:	109834-045A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (STLC)							
WET			**WET/ EPA 7420**				
RunID: **AA2_100222D**	QC Batch: **62129**				PrepDate:	**2/19/2010**	Analyst: **IL**
Lead	ND	0.21	0.25		mg/L	1	2/22/2010 09:17 AM
LEAD BY ATOMIC ABSORPTION (TCLP)							
EPA3010A			**EPA 1311/ 7420**				
RunID: **AA2_100222G**	QC Batch: **62133**				PrepDate:	**2/20/2010**	Analyst: **IL**
Lead	0.30	0.21	0.25		mg/L	1	2/22/2010 10:09 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CASE NARRATIVE

Analytical Comments for EPA 6010B

Sample 109834-034A-DUP, RPD for Sample Duplicate (DUP) is outside criteria; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Advanced Technology Laboratories
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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61935

Sample ID: **MB-61935** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118166**
Client ID: **PBS** Batch ID: **61935** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2010** SeqNo: **1878712**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: **LCS-61935** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118166**
Client ID: **LCSS** Batch ID: **61935** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2010** SeqNo: **1878713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	49.914	2.0	50.00	0	99.8	80	120				
Arsenic	48.657	1.0	50.00	0	97.3	80	120				
Barium	49.960	1.0	50.00	0	99.9	80	120				
Beryllium	50.291	1.0	50.00	0	101	80	120				
Cadmium	50.146	1.0	50.00	0	100	80	120				
Chromium	50.048	1.0	50.00	0	100	80	120				
Cobalt	51.204	1.0	50.00	0	102	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61935

Sample ID: **LCS-61935** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118166**
Client ID: **LCSS** Batch ID: **61935** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2010** SeqNo: **1878713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	50.796	2.0	50.00	0	102	80	120				
Lead	49.693	1.0	50.00	0	99.4	80	120				
Molybdenum	52.547	1.0	50.00	0	105	80	120				
Nickel	49.056	1.0	50.00	0	98.1	80	120				
Selenium	46.694	1.0	50.00	0	93.4	80	120				
Silver	45.037	1.0	50.00	0	90.1	80	120				
Thallium	50.208	1.0	50.00	0	100	80	120				
Vanadium	50.928	1.0	50.00	0	102	80	120				
Zinc	50.119	1.0	50.00	0	100	80	120				

Sample ID: **109834-034A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118166**
Client ID: **1087-111-0.5** Batch ID: **61935** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2010** SeqNo: **1878720**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	3.974	1.0						3.628	9.11	20	
Barium	83.024	1.0						90.11	8.19	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.767	1.0						0.7427	0	20	
Chromium	19.426	1.0						16.42	16.8	20	
Cobalt	4.891	1.0						4.240	14.2	20	
Copper	12.953	2.0						11.63	10.8	20	
Lead	26.420	1.0						36.35	31.6	20	R
Molybdenum	0.342	1.0						0.3137	0	20	
Nickel	29.189	1.0						26.18	10.9	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	21.248	1.0						19.78	7.16	20	
Zinc	33.245	1.0						30.78	7.69	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61935

Sample ID: **109834-034A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118166**
Client ID: **1087-111-0.5** Batch ID: **61935** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2010** SeqNo: **1878721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	83.246	2.0	125.0	0	66.6	32	105				
Arsenic	103.454	1.0	125.0	3.628	79.9	49	106				
Barium	184.382	1.0	125.0	90.11	75.4	31	133				
Beryllium	100.895	1.0	125.0	0	80.7	56	106				
Cadmium	95.159	1.0	125.0	0.7427	75.5	51	103				
Chromium	121.574	1.0	125.0	16.42	84.1	45	114				
Cobalt	98.524	1.0	125.0	4.240	75.4	52	106				
Copper	122.494	2.0	125.0	11.63	88.7	54	125				
Lead	120.995	1.0	125.0	36.35	67.7	34	126				
Molybdenum	99.656	1.0	125.0	0.3137	79.5	54	106				
Nickel	123.634	1.0	125.0	26.18	78.0	45	111				
Selenium	86.617	1.0	125.0	0	69.3	47	104				
Silver	99.700	1.0	125.0	0	79.8	56	112				
Thallium	93.314	1.0	125.0	0	74.7	46	101				
Vanadium	122.640	1.0	125.0	19.78	82.3	54	114				
Zinc	131.856	1.0	125.0	30.78	80.9	28	125				

Sample ID: **109834-034A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118166**
Client ID: **1087-111-0.5** Batch ID: **61935** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2010** SeqNo: **1878722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	88.268	2.0	125.0	0	70.6	32	105	83.25	5.86	20	
Arsenic	105.324	1.0	125.0	3.628	81.4	49	106	103.5	1.79	20	
Barium	185.854	1.0	125.0	90.11	76.6	31	133	184.4	0.795	20	
Beryllium	104.463	1.0	125.0	0	83.6	56	106	100.9	3.48	20	
Cadmium	97.583	1.0	125.0	0.7427	77.5	51	103	95.16	2.52	20	
Chromium	123.093	1.0	125.0	16.42	85.3	45	114	121.6	1.24	20	
Cobalt	101.492	1.0	125.0	4.240	77.8	52	106	98.52	2.97	20	
Copper	125.528	2.0	125.0	11.63	91.1	54	125	122.5	2.45	20	
Lead	126.341	1.0	125.0	36.35	72.0	34	126	121.0	4.32	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61935

Sample ID: **109834-034A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118166**
Client ID: **1087-111-0.5** Batch ID: **61935** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **2/16/2010** SeqNo: **1878722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	103.655	1.0	125.0	0.3137	82.7	54	106	99.66	3.93	20	
Nickel	125.065	1.0	125.0	26.18	79.1	45	111	123.6	1.15	20	
Selenium	88.017	1.0	125.0	0	70.4	47	104	86.62	1.60	20	
Silver	102.253	1.0	125.0	0	81.8	56	112	99.70	2.53	20	
Thallium	95.976	1.0	125.0	0	76.8	46	101	93.31	2.81	20	
Vanadium	125.338	1.0	125.0	19.78	84.4	54	114	122.6	2.18	20	
Zinc	137.302	1.0	125.0	30.78	85.2	28	125	131.9	4.05	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61937

Sample ID: **MB-61937A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2010** RunNo: **118252**
Client ID: **PBS** Batch ID: **61937** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2010** SeqNo: **1880053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-61937** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2010** RunNo: **118252**
Client ID: **LCSS** Batch ID: **61937** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2010** SeqNo: **1880054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.747	0.25	5.000	0	94.9	80	120				

Sample ID: **109970-029A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2010** RunNo: **118252**
Client ID: **ZZZZZZ** Batch ID: **61937** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2010** SeqNo: **1880065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.962	0.50						10.64	2.98	20	

Sample ID: **109970-029A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2010** RunNo: **118252**
Client ID: **ZZZZZZ** Batch ID: **61937** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2010** SeqNo: **1880066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.143	0.50	5.000	10.64	110	80	120				

Sample ID: **MB-61937B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2010** RunNo: **118252**
Client ID: **PBS** Batch ID: **61937** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2010** SeqNo: **1880067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61937

Sample ID: **110094-063A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2010** RunNo: **118252**
Client ID: **ZZZZZZ** Batch ID: **61937** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2010** SeqNo: **1880077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.177	0.25						4.167	0.241	20	

Sample ID: **110094-063A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2010** RunNo: **118252**
Client ID: **ZZZZZZ** Batch ID: **61937** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2010** SeqNo: **1880078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.602	0.50	5.000	4.167	109	80	120				

Sample ID: **110094-063A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/15/2010** RunNo: **118252**
Client ID: **ZZZZZZ** Batch ID: **61937** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/17/2010** SeqNo: **1880079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.386	0.50	5.000	4.167	104	80	120	9.602	2.27	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 62005

Sample ID: **MB-62005A** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2010** RunNo: **118263**
Client ID: **PBS** Batch ID: **62005** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2010** SeqNo: **1880285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-61981A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2010** RunNo: **118263**
Client ID: **PBS** Batch ID: **62005** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2010** SeqNo: **1880286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-62005** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2010** RunNo: **118263**
Client ID: **LCSS** Batch ID: **62005** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2010** SeqNo: **1880287**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.960	0.25	1.000	0	96.0	80	120				

Sample ID: **109834-034A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2010** RunNo: **118263**
Client ID: **1087-111-0.5** Batch ID: **62005** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2010** SeqNo: **1880294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **109834-034A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2010** RunNo: **118263**
Client ID: **1087-111-0.5** Batch ID: **62005** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2010** SeqNo: **1880295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.517	0.25	2.500	0	101	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 62005

Sample ID: **109834-034A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/17/2010** RunNo: **118263**
Client ID: **1087-111-0.5** Batch ID: **62005** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/17/2010** SeqNo: **1880296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.478	0.25	2.500	0	99.1	70	130	2.517	1.55	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61943

Sample ID: **MB-61943** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118120**
Client ID: **PBS** Batch ID: **61943** TestNo: **EPA 7471A** Analysis Date: **2/15/2010** SeqNo: **1877773**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-61943** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118120**
Client ID: **LCSS** Batch ID: **61943** TestNo: **EPA 7471A** Analysis Date: **2/15/2010** SeqNo: **1877774**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.914	0.10	0.8300	0	110	80	120				

Sample ID: **110088-011A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118120**
Client ID: **ZZZZZZ** Batch ID: **61943** TestNo: **EPA 7471A** Analysis Date: **2/15/2010** SeqNo: **1877775**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.999	0.10	0.8300	0.07864	111	70	130				

Sample ID: **110088-011A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118120**
Client ID: **ZZZZZZ** Batch ID: **61943** TestNo: **EPA 7471A** Analysis Date: **2/15/2010** SeqNo: **1877776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.000	0.10	0.8300	0.07864	111	70	130	0.9992	0.0868	20	

Sample ID: **110088-011A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **2/15/2010** RunNo: **118120**
Client ID: **ZZZZZZ** Batch ID: **61943** TestNo: **EPA 7471A** Analysis Date: **2/15/2010** SeqNo: **1877778**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.075	0.10						0.07864	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 62129

Sample ID: **MB-62129A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/19/2010** RunNo: **118369**
Client ID: **PBS** Batch ID: **62129** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/22/2010** SeqNo: **1882352**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-62129** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/19/2010** RunNo: **118369**
Client ID: **LCSS** Batch ID: **62129** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/22/2010** SeqNo: **1882353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.177	0.25	5.000	0	104	80	120				

Sample ID: **109834-045A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/19/2010** RunNo: **118369**
Client ID: **1087-114-0.5** Batch ID: **62129** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/22/2010** SeqNo: **1882355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Sample ID: **109834-045A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/19/2010** RunNo: **118369**
Client ID: **1087-114-0.5** Batch ID: **62129** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/22/2010** SeqNo: **1882356**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.046	0.25	5.000	0	101	80	120				

Sample ID: **109834-045A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **2/19/2010** RunNo: **118369**
Client ID: **1087-114-0.5** Batch ID: **62129** TestNo: **WET/ EPA 74 WET** Analysis Date: **2/22/2010** SeqNo: **1882357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.127	0.25	5.000	0	103	80	120	5.046	1.59	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 62133

Sample ID: **MB-62133A**	SampType: **MBLK**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/20/2010**	RunNo: **118382**
Client ID: **PBS**	Batch ID: **62133**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/22/2010**	SeqNo: **1882662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-62125A TCLP**	SampType: **MBLK**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/20/2010**	RunNo: **118382**
Client ID: **PBS**	Batch ID: **62133**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/22/2010**	SeqNo: **1882663**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-62133**	SampType: **LCS**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/20/2010**	RunNo: **118382**
Client ID: **LCSS**	Batch ID: **62133**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/22/2010**	SeqNo: **1882664**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.015	0.25	1.000	0	102	80	120				

Sample ID: **109970-009A-DUP**	SampType: **DUP**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/20/2010**	RunNo: **118382**
Client ID: **ZZZZZZ**	Batch ID: **62133**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/22/2010**	SeqNo: **1882675**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.492	0.25						1.402	6.19	20	

Sample ID: **109970-009A-MS**	SampType: **MS**	TestCode: **7420_TC**	Units: **mg/L**	Prep Date: **2/20/2010**	RunNo: **118382**
Client ID: **ZZZZZZ**	Batch ID: **62133**	TestNo: **EPA 1311/ 74**	**EPA3010A**	Analysis Date: **2/22/2010**	SeqNo: **1882676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.052	0.25	2.500	1.402	106	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109834
Project: EA 228201, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 62133

Sample ID: **MB-62133B** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/20/2010** RunNo: **118382**
Client ID: **PBS** Batch ID: **62133** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/22/2010** SeqNo: **1882677**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-62125B TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/20/2010** RunNo: **118382**
Client ID: **PBS** Batch ID: **62133** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/22/2010** SeqNo: **1882678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **109970-029A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/20/2010** RunNo: **118382**
Client ID: **ZZZZZZ** Batch ID: **62133** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/22/2010** SeqNo: **1882680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.416	0.25						0.3761	10.1	20	

Sample ID: **109970-029A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/20/2010** RunNo: **118382**
Client ID: **ZZZZZZ** Batch ID: **62133** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/22/2010** SeqNo: **1882681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.233	0.25	2.500	0.3761	114	70	130				

Sample ID: **109970-029A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **2/20/2010** RunNo: **118382**
Client ID: **ZZZZZZ** Batch ID: **62133** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **2/22/2010** SeqNo: **1882682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.258	0.25	2.500	0.3761	115	70	130	3.233	0.772	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

February 03, 2010

Nancy Anglin
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 109842

RE: Caltrans TO-16, 207126016

Attention: Nancy Anglin

Enclosed are the results for sample(s) received on January 27, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories

Date: *03-Feb-10*

CLIENT: Ninyo & Moore
Project: Caltrans TO-16, 207126016
Lab Order: 109842
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109842-001A	1087-201-0.5	Soil	1/26/2010 10:09:00 AM	1/27/2010	2/3/2010
109842-002A	1087-201-10	Soil	1/26/2010 10:41:00 AM	1/27/2010	2/3/2010
109842-003A	1087-201-20	Soil	1/26/2010 10:49:00 AM	1/27/2010	2/3/2010
109842-004A	1087-203-0.5	Soil	1/26/2010 2:19:00 PM	1/27/2010	2/3/2010
109842-005A	1087-203-5	Soil	1/26/2010 2:31:00 PM	1/27/2010	2/3/2010
109842-006A	1087-203-10	Soil	1/26/2010 2:41:00 PM	1/27/2010	2/3/2010
109842-007A	1087-203-10D	Soil	1/26/2010 2:44:00 PM	1/27/2010	2/3/2010
109842-008A	1087-203-15	Soil	1/26/2010 2:47:00 PM	1/27/2010	2/3/2010
109842-009A	1087-ERB-SP	Drinking Water	1/26/2010 4:00:00 PM	1/27/2010	2/3/2010

Advanced Technology Laboratories
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CLIENT: Ninyo & Moore
Project: Caltrans TO-16, 207126016
Lab Order: 109842

CASE NARRATIVE

Sample Receiving / General Comments

Sample received for EPA 8015B (C8 to >C32) water analysis was in a 32 oz. plastic container. The client was informed upon submission of the samples and instructed the lab to proceed with the analysis.

Analytical Comments for EPA 8015B(M) (C4-C12)

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for EPA 8015B(M) (C13 to >C32)

Sample 109842-004A, 109849-010AMS and 109849-010AMSD, surrogate diluted out.

Sample MB-61478, surrogate recovery biased high; however the results were non-detect (ND) for analytes of interest and reanalysis of the sample was not necessary.

Sample 109822-009ADUP, RPD for Sample Duplicate (DUP) is outside criteria; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Samples 109849-010AMS and 109849-010AMSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Sample 109849-010AMSD, RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-0.5
Lab Order:	109842	**Collection Date:**	1/26/2010 10:09:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100128A**	QC Batch: **E10VS027**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/28/2010 02:50 PM
Surr: Bromofluorobenzene (FID)	102	0	59-145		%REC	1	1/28/2010 02:50 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-10
Lab Order:	109842	**Collection Date:**	1/26/2010 10:41:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100128A**	QC Batch: **E10VS027**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/28/2010 03:04 PM
Surr: Bromofluorobenzene (FID)	90.3	0	59-145		%REC	1	1/28/2010 03:04 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-20
Lab Order:	109842	**Collection Date:**	1/26/2010 10:49:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100128A**	QC Batch: **E10VS027**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/28/2010 04:46 PM
Surr: Bromofluorobenzene (FID)	94.8	0	59-145		%REC	1	1/28/2010 04:46 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-0.5
Lab Order:	109842	**Collection Date:**	1/26/2010 2:19:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-004A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100128A**	QC Batch: **E10VS027**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/28/2010 03:19 PM
Surr: Bromofluorobenzene (FID)	92.7	0	59-145		%REC	1	1/28/2010 03:19 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-5
Lab Order:	109842	**Collection Date:**	1/26/2010 2:31:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100128A**	QC Batch: **E10VS027**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/28/2010 03:33 PM
Surr: Bromofluorobenzene (FID)	86.1	0	59-145		%REC	1	1/28/2010 03:33 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-10
Lab Order:	109842	**Collection Date:**	1/26/2010 2:41:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-006A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100128A**	QC Batch: **E10VS027**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/28/2010 04:02 PM
Surr: Bromofluorobenzene (FID)	92.8	0	59-145		%REC	1	1/28/2010 04:02 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-10D
Lab Order:	109842	**Collection Date:**	1/26/2010 2:44:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100128A**	QC Batch: **E10VS027**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/28/2010 04:17 PM
Surr: Bromofluorobenzene (FID)	94.6	0	59-145		%REC	1	1/28/2010 04:17 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-15
Lab Order:	109842	**Collection Date:**	1/26/2010 2:47:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-008A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100128A**	QC Batch: **E10VS027**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/28/2010 04:31 PM
Surr: Bromofluorobenzene (FID)	89.6	0	59-145		%REC	1	1/28/2010 04:31 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-0.5
Lab Order:	109842	**Collection Date:**	1/26/2010 10:09:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B			**EPA 8015B(M)**			
RunID: GC16_100201B	QC Batch: 61478			PrepDate:	1/29/2010	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	1.9	1.0		mg/Kg	1	2/1/2010 10:23 PM
T/R Hydrocarbons: C23-C32	10	1.0		mg/Kg	1	2/1/2010 10:23 PM
T/R Hydrocarbons:>C32	14	1.0		mg/Kg	1	2/1/2010 10:23 PM
Surr: p-Terphenyl	121	30-130		%REC	1	2/1/2010 10:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-10
Lab Order:	109842	**Collection Date:**	1/26/2010 10:41:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B			**EPA 8015B(M)**			
RunID: GC16_100201B	QC Batch: 61478			PrepDate:	1/29/2010	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	8.0	1.0		mg/Kg	1	2/1/2010 11:08 PM
T/R Hydrocarbons: C23-C32	20	1.0		mg/Kg	1	2/1/2010 11:08 PM
T/R Hydrocarbons:>C32	25	1.0		mg/Kg	1	2/1/2010 11:08 PM
Surr: p-Terphenyl	115	30-130		%REC	1	2/1/2010 11:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-20
Lab Order:	109842	**Collection Date:**	1/26/2010 10:49:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B			**EPA 8015B(M)**			
RunID: GC16_100201B	QC Batch: 61478			PrepDate: 1/29/2010		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	1.8	1.0		mg/Kg	1	2/1/2010 09:57 PM
T/R Hydrocarbons: C23-C32	4.7	1.0		mg/Kg	1	2/1/2010 09:57 PM
T/R Hydrocarbons:>C32	4.8	1.0		mg/Kg	1	2/1/2010 09:57 PM
Surr: p-Terphenyl	101	30-130		%REC	1	2/1/2010 09:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-0.5
Lab Order:	109842	**Collection Date:**	1/26/2010 2:19:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B			**EPA 8015B(M)**			
RunID: GC16_100201B	QC Batch: 61478			PrepDate:	1/29/2010	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	62	10		mg/Kg	10	2/2/2010 12:13 AM
T/R Hydrocarbons: C23-C32	400	10		mg/Kg	10	2/2/2010 12:13 AM
T/R Hydrocarbons:>C32	640	10		mg/Kg	10	2/2/2010 12:13 AM
Surr: p-Terphenyl	0	30-130	SDO	%REC	10	2/2/2010 12:13 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-5
Lab Order:	109842	**Collection Date:**	1/26/2010 2:31:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_100201B	QC Batch: 61478				PrepDate: 1/29/2010	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	1.4	1.0		mg/Kg	1	2/1/2010 10:32 PM
T/R Hydrocarbons: C23-C32	9.3	1.0		mg/Kg	1	2/1/2010 10:32 PM
T/R Hydrocarbons:>C32	14	1.0		mg/Kg	1	2/1/2010 10:32 PM
Surr: p-Terphenyl	128	30-130		%REC	1	2/1/2010 10:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-10
Lab Order:	109842	**Collection Date:**	1/26/2010 2:41:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-006A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_100201B	QC Batch: 61478				PrepDate: 1/29/2010	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0		mg/Kg	1	2/1/2010 10:06 PM
T/R Hydrocarbons: C23-C32	2.7	1.0		mg/Kg	1	2/1/2010 10:06 PM
T/R Hydrocarbons:>C32	4.4	1.0		mg/Kg	1	2/1/2010 10:06 PM
Surr: p-Terphenyl	97.3	30-130		%REC	1	2/1/2010 10:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-10D
Lab Order:	109842	**Collection Date:**	1/26/2010 2:44:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-007A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_100201B	QC Batch: 61478				PrepDate: 1/29/2010	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	1.1	1.0		mg/Kg	1	2/1/2010 10:14 PM
T/R Hydrocarbons: C23-C32	5.5	1.0		mg/Kg	1	2/1/2010 10:14 PM
T/R Hydrocarbons:>C32	7.6	1.0		mg/Kg	1	2/1/2010 10:14 PM
Surr: p-Terphenyl	96.3	30-130		%REC	1	2/1/2010 10:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-15
Lab Order:	109842	**Collection Date:**	1/26/2010 2:47:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109842-008A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_100201B	QC Batch: 61478				PrepDate: 1/29/2010	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	3.2	1.0		mg/Kg	1	2/1/2010 10:41 PM
T/R Hydrocarbons: C23-C32	11	1.0		mg/Kg	1	2/1/2010 10:41 PM
T/R Hydrocarbons:>C32	17	1.0		mg/Kg	1	2/1/2010 10:41 PM
Surr: p-Terphenyl	123	30-130		%REC	1	2/1/2010 10:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *03-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-SP
Lab Order:	109842	**Collection Date:**	1/26/2010 4:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109842-009A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100129A	QC Batch: 61446			PrepDate:	1/28/2010	Analyst: **CBR**
T/R Hydrocarbons: C8-C12	ND	0.050		mg/L	1	1/29/2010 04:51 PM
T/R Hydrocarbons: C13-C22	ND	0.050		mg/L	1	1/29/2010 04:51 PM
T/R Hydrocarbons: C23-C32	ND	0.050		mg/L	1	1/29/2010 04:51 PM
T/R Hydrocarbons:>C32	ND	0.050		mg/L	1	1/29/2010 04:51 PM
Surr: p-Terphenyl	109	35-131		%REC	1	1/29/2010 04:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ninyo & Moore
Work Order: 109842
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_SEMI_LL

Sample ID: **MB-61478** SampType: **MBLK** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **PBS** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/1/2010** SeqNo: **1866932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	1.0									
T/R Hydrocarbons: C13-C22	ND	1.0									
T/R Hydrocarbons: C23-C32	ND	1.0									
T/R Hydrocarbons:>C32	ND	1.0									
Surr: p-Terphenyl	3.540		2.670		133	30	130				S

Sample ID: **109822-009ADUP** SampType: **DUP** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **ZZZZZZ** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/1/2010** SeqNo: **1866946**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	1.0						0	0	20	
T/R Hydrocarbons: C13-C22	1.777	1.0						1.223	36.9	20	R
T/R Hydrocarbons: C23-C32	26.039	1.0						12.61	69.5	20	R
T/R Hydrocarbons:>C32	68.971	1.0						32.89	70.8	20	R
Surr: p-Terphenyl	2.794		2.670		105	30	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109842
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **E100128LCS1** SampType: **LCS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117443**
Client ID: **LCSS** Batch ID: **E10VS027** TestNo: **EPA 8015B(M** Analysis Date: **1/28/2010** SeqNo: **1864812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.543	1.0	5.000	0	90.9	73	120				
Surr: Bromofluorobenzene (FID)	90.211		100.0		90.2	59	145				

Sample ID: **E100128MB1** SampType: **MBLK** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117443**
Client ID: **PBS** Batch ID: **E10VS027** TestNo: **EPA 8015B(M** Analysis Date: **1/28/2010** SeqNo: **1864813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0									
Surr: Bromofluorobenzene (FID)	89.409		100.0		89.4	59	145				

Sample ID: **109842-005ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117443**
Client ID: **1087-203-5** Batch ID: **E10VS027** TestNo: **EPA 8015B(M** Analysis Date: **1/28/2010** SeqNo: **1864818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0						0	0	20	
Surr: Bromofluorobenzene (FID)	88.982		100.0		89.0	59	145		0	0	

Sample ID: **109842-005AMS** SampType: **MS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117443**
Client ID: **1087-203-5** Batch ID: **E10VS027** TestNo: **EPA 8015B(M** Analysis Date: **1/28/2010** SeqNo: **1864823**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.170	1.0	5.000	0	83.4	39	135				
Surr: Bromofluorobenzene (FID)	97.299		100.0		97.3	59	145				

Sample ID: **109842-005AMSD** SampType: **MSD** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117443**
Client ID: **1087-203-5** Batch ID: **E10VS027** TestNo: **EPA 8015B(M** Analysis Date: **1/28/2010** SeqNo: **1864824**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.162	1.0	5.000	0	83.2	39	135	4.170	0.192	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109842
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **109842-005AMSD** SampType: **MSD** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117443**
Client ID: **1087-203-5** Batch ID: **E10VS027** TestNo: **EPA 8015B(M** Analysis Date: **1/28/2010** SeqNo: **1864824**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	88.371		100.0		88.4	59	145		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109842
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_W_SEMI_LL

Sample ID: **MB-61446**	SampType: **MBLK**	TestCode: **HC_W_SEMI**	Units: **mg/L**	Prep Date: **1/28/2010**	RunNo: **117513**
Client ID: **PBW**	Batch ID: **61446**	TestNo: **EPA 8015B(M**	**EPA 3510C**	Analysis Date: **1/29/2010**	SeqNo: **1866733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	0.050									
T/R Hydrocarbons: C13-C22	ND	0.050									
T/R Hydrocarbons: C23-C32	ND	0.050									
T/R Hydrocarbons:>C32	ND	0.050									
Surr: p-Terphenyl	0.066		0.08000		82.8	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109842
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61478

Sample ID: **LCS-61478** SampType: **LCS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **LCSS** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/1/2010** SeqNo: **1867388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	30.077	1.0	33.00	0	91.1	35	124				
Surr: p-Terphenyl	3.099		2.670		116	30	130				

Sample ID: **109849-010AMS** SampType: **MS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **ZZZZZZ** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/2/2010** SeqNo: **1867407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	116.563	10	33.00	162.3	-139	12	125				S
Surr: p-Terphenyl	0		2.670		0	30	130				SDO

Sample ID: **109849-010AMSD** SampType: **MSD** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **ZZZZZZ** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/2/2010** SeqNo: **1867408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	147.030	10	33.00	162.3	-46.3	12	125	116.6	23.1	20	SR
Surr: p-Terphenyl	0		2.670		0	30	130		0	0	SDO

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109842
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61446

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866291**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.20	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.20	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.20	1.000	0	84.5	42	118				
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.050	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 109842
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61446

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.050	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.050	1.000	0	84.5	42	118				
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
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CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date: 1/28/10

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other:

Sample Condition Upon Receipt
1. CHILLED 3.0 4.4 4.8 2.0 Y☑ N☐
2. HEADSPACE (VOA) Y☐ N☐ N/A
3. CONTAINER INTACT Y☑ N☐
4. CUSTODY SEAL Y☐ N☑
5. # OF SPLS MATCH COC Y☐ N☑
6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Nancy Anglin
Address: 475 Goddard, Suite 200
City: Irvine State: CA Zip Code: 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Caltrans TO-16
Project #: 207126016
Sampler: (Printed Name) Zack Mason (Signature) Zack Mason

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Zack Mason Zack Mason	1/26/10	18:10	Tommy Mutter	1/26/10	18:10
Tommy Mutter	1/27/10	08:10	Tommy Mutter	1/27/10	8:0

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Tommy Mutter (Print Name) 1/27/10 (Date)
Signature: Tommy Mutter

Send Report To: Attn: Nancy Anglin; Co:; Address; City State Zip

Bill To: Attn: SAME; Co:; Address; City State Zip

Special Instructions/Comments:
OK to run sample for TPH from Plastic bottle (TM)
C_4-C_{12}, C_{13}-C_{22}, C_{23}-C_{32}, >C_{32}

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) / 8020 (BTEX), 8015B (DRO), 8021 (BTEX), TITLE 22 / CAM 17 (6010 / 7000), 8015 TPH carbon chain

SPECIFY APPROPRIATE MATRIX: SOLID, SOIL, DRINKING WATER, GROUND WATER, WASTEWATER, STORMWATER, AQUEOUS

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	109842-001	1087-201-0.5	1/26/10	10:09	5	1	J	–	
	2	1087-201-10		10:41			T		
	3	1087-201-20		10:49			T		
	4	1087-203-0.5		14:19			J		
	5	1087-203-5		14:31			T		
	6	1087-203-10		14:41			T		
	7	1087-203-10D		14:41			T		
	8	1087-203-15		14:47			T		
	9	1087-ERB-SP		16:00		1	P		

ZKM 1/26/10

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr; B= Emergency Next workday; C= Critical 2 Workdays; D= Urgent 3 Workdays; E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

February 09, 2010

Nancy Anglin
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618

TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 109849

RE: Caltrans TO-16, 207126016

Attention: Nancy Anglin

Enclosed are the results for sample(s) received on January 27, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *09-Feb-10*

CLIENT: Ninyo & Moore
Project: Caltrans TO-16, 207126016
Lab Order: 109849
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109849-001A	1087-202-0.5	Soil	1/27/2010 7:10:00 AM	1/27/2010	2/9/2010
109849-002A	1087-202-0.5D	Soil	1/27/2010 7:12:00 AM	1/27/2010	2/9/2010
109849-003A	1087-202-5	Soil	1/27/2010 7:27:00 AM	1/27/2010	2/9/2010
109849-004A	1087-202-10	Soil	1/27/2010 7:36:00 AM	1/27/2010	2/9/2010
109849-005A	1087-202-15	Soil	1/27/2010 7:41:00 AM	1/27/2010	2/9/2010
109849-006A	1087-204-0.5	Soil	1/27/2010 8:30:00 AM	1/27/2010	2/9/2010
109849-007A	1087-204-5	Soil	1/27/2010 8:36:00 AM	1/27/2010	2/9/2010
109849-008A	1087-204-10	Soil	1/27/2010 8:42:00 AM	1/27/2010	2/9/2010
109849-009A	1087-204-15	Soil	1/27/2010 8:45:00 AM	1/27/2010	2/9/2010
109849-010A	1087-205-0.5	Soil	1/27/2010 9:11:00 AM	1/27/2010	2/9/2010
109849-011A	1087-205-5	Soil	1/27/2010 9:24:00 AM	1/27/2010	2/9/2010
109849-012A	1087-205-5D	Soil	1/27/2010 9:26:00 AM	1/27/2010	2/9/2010
109849-013A	1087-205-10	Soil	1/27/2010 9:30:00 AM	1/27/2010	2/9/2010
109849-014A	1087-205-15	Soil	1/27/2010 9:34:00 AM	1/27/2010	2/9/2010
109849-015A	1087-206-0.5	Soil	1/27/2010 10:15:00 AM	1/27/2010	2/9/2010
109849-016A	1087-206-0.5D	Soil	1/27/2010 10:20:00 AM	1/27/2010	2/9/2010
109849-017A	1087-206-5	Soil	1/27/2010 10:27:00 AM	1/27/2010	2/9/2010
109849-018A	1087-206-10	Soil	1/27/2010 10:33:00 AM	1/27/2010	2/9/2010
109849-019A	1087-206-15	Soil	1/27/2010 10:40:00 AM	1/27/2010	2/9/2010
109849-020A	1087-207-0.5	Soil	1/27/2010 11:08:00 AM	1/27/2010	2/9/2010
109849-021A	1087-207-5	Solid	1/27/2010 11:22:00 AM	1/27/2010	2/9/2010
109849-022A	1087-207-10	Solid	1/27/2010 11:28:00 AM	1/27/2010	2/9/2010
109849-023A	1087-207-15	Solid	1/27/2010 11:32:00 AM	1/27/2010	2/9/2010
109849-024A	1087-ERB-SS2	Drinking Water	1/27/2010 10:00:00 AM	1/27/2010	2/9/2010

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CASE NARRATIVE

Sample Receiving / General Comments

Sample received for EPA 8015B (C8 to >C32) water analysis was in a 32 oz. plastic container. The client was informed upon submission of the samples and instructed the lab to proceed with the analysis.

Analytical Comments for EPA 8015B(M) (C4-C12)

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for EPA 8015B(M) (C13 to >C32)

Samples 109849-001A, 109849-010A, 109849-012A, 109849-015A, 109849-016A, 109849-020A, 109849-010AMS and 109849-010AMSD, surrogate diluted out.

Sample MB-61478, surrogate recovery biased high; however the results were non-detect (ND) for analytes of interest and reanalysis of the sample was not necessary.

Samples 109822-009ADUP and 109849-004ADUP, RPD for Sample Duplicate (DUP) is outside criteria; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Samples 109849-010AMS and 109849-010AMSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Sample 109849-010AMSD, RPD for Matrix Spike Duplicate (MSD) is outside criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-202-0.5
Lab Order:	109849	**Collection Date:**	1/27/2010 7:10:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	220	20	20		mg/Kg	20	2/2/2010 04:16 PM
T/R Hydrocarbons: C23-C32	540	20	20		mg/Kg	20	2/2/2010 04:16 PM
T/R Hydrocarbons:>C32	660	20	20		mg/Kg	20	2/2/2010 04:16 PM
Surr: p-Terphenyl	0	0	30-130	SDO	%REC	20	2/2/2010 04:16 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129A**	QC Batch: **E10VS028**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 03:34 PM
Surr: Bromofluorobenzene (FID)	97.3	0	59-145		%REC	1	1/29/2010 03:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-202-0.5D
Lab Order:	109849	**Collection Date:**	1/27/2010 7:12:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201B**	QC Batch: **61478**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/1/2010 10:50 PM
T/R Hydrocarbons: C23-C32	7.1	1.0	1.0		mg/Kg	1	2/1/2010 10:50 PM
T/R Hydrocarbons:>C32	17	1.0	1.0		mg/Kg	1	2/1/2010 10:50 PM
Surr: p-Terphenyl	123	0	30-130		%REC	1	2/1/2010 10:50 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129A**	QC Batch: **E10VS028**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 03:49 PM
Surr: Bromofluorobenzene (FID)	92.8	0	59-145		%REC	1	1/29/2010 03:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-202-5
Lab Order:	109849	**Collection Date:**	1/27/2010 7:27:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/1/2010 07:11 PM
T/R Hydrocarbons: C23-C32	4.6	1.0	1.0		mg/Kg	1	2/1/2010 07:11 PM
T/R Hydrocarbons:>C32	9.2	1.0	1.0		mg/Kg	1	2/1/2010 07:11 PM
Surr: p-Terphenyl	121	0	30-130		%REC	1	2/1/2010 07:11 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 06:29 PM
Surr: Bromofluorobenzene (FID)	96.8	0	59-145		%REC	1	1/29/2010 06:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-202-10
Lab Order:	109849	**Collection Date:**	1/27/2010 7:36:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-004A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	2.2	1.0	1.0		mg/Kg	1	2/1/2010 07:20 PM
T/R Hydrocarbons: C23-C32	6.6	1.0	1.0		mg/Kg	1	2/1/2010 07:20 PM
T/R Hydrocarbons:>C32	9.9	1.0	1.0		mg/Kg	1	2/1/2010 07:20 PM
Surr: p-Terphenyl	128	0	30-130		%REC	1	2/1/2010 07:20 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 06:58 PM
Surr: Bromofluorobenzene (FID)	88.1	0	59-145		%REC	1	1/29/2010 06:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-202-15
Lab Order:	109849	**Collection Date:**	1/27/2010 7:41:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/1/2010 06:52 PM
T/R Hydrocarbons: C23-C32	2.7	1.0	1.0		mg/Kg	1	2/1/2010 06:52 PM
T/R Hydrocarbons:>C32	3.8	1.0	1.0		mg/Kg	1	2/1/2010 06:52 PM
Surr: p-Terphenyl	107	0	30-130		%REC	1	2/1/2010 06:52 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 02:15 AM
Surr: Bromofluorobenzene (FID)	97.1	0	59-145		%REC	1	1/30/2010 02:15 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-204-0.5
Lab Order:	109849	**Collection Date:**	1/27/2010 8:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-006A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	5.1	1.0	1.0		mg/Kg	1	2/1/2010 07:38 PM
T/R Hydrocarbons: C23-C32	32	1.0	1.0		mg/Kg	1	2/1/2010 07:38 PM
T/R Hydrocarbons:>C32	48	1.0	1.0		mg/Kg	1	2/1/2010 07:38 PM
Surr: p-Terphenyl	110	0	30-130		%REC	1	2/1/2010 07:38 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 07:12 PM
Surr: Bromofluorobenzene (FID)	97.2	0	59-145		%REC	1	1/29/2010 07:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-204-5
Lab Order:	109849	**Collection Date:**	1/27/2010 8:36:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
EPA 3550B			**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/1/2010 07:47 PM
T/R Hydrocarbons: C23-C32	11	1.0	1.0		mg/Kg	1	2/1/2010 07:47 PM
T/R Hydrocarbons:>C32	30	1.0	1.0		mg/Kg	1	2/1/2010 07:47 PM
Surr: p-Terphenyl	109	0	30-130		%REC	1	2/1/2010 07:47 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 07:27 PM
Surr: Bromofluorobenzene (FID)	101	0	59-145		%REC	1	1/29/2010 07:27 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-204-10
Lab Order:	109849	**Collection Date:**	1/27/2010 8:42:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-008A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/1/2010 06:43 PM
T/R Hydrocarbons: C23-C32	ND	1.0	1.0		mg/Kg	1	2/1/2010 06:43 PM
T/R Hydrocarbons:>C32	1.7	1.0	1.0		mg/Kg	1	2/1/2010 06:43 PM
Surr: p-Terphenyl	121	0	30-130		%REC	1	2/1/2010 06:43 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 07:41 PM
Surr: Bromofluorobenzene (FID)	94.9	0	59-145		%REC	1	1/29/2010 07:41 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-204-15
Lab Order:	109849	**Collection Date:**	1/27/2010 8:45:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-009A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/1/2010 07:01 PM
T/R Hydrocarbons: C23-C32	1.8	1.0	1.0		mg/Kg	1	2/1/2010 07:01 PM
T/R Hydrocarbons:>C32	3.8	1.0	1.0		mg/Kg	1	2/1/2010 07:01 PM
Surr: p-Terphenyl	113	0	30-130		%REC	1	2/1/2010 07:01 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 07:56 PM
Surr: Bromofluorobenzene (FID)	93.8	0	59-145		%REC	1	1/29/2010 07:56 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-205-0.5
Lab Order:	109849	**Collection Date:**	1/27/2010 9:11:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-010A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201B**	QC Batch: **61478**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	38	10	10		mg/Kg	10	2/2/2010 01:42 PM
T/R Hydrocarbons: C23-C32	290	10	10		mg/Kg	10	2/2/2010 01:42 PM
T/R Hydrocarbons:>C32	440	10	10		mg/Kg	10	2/2/2010 01:42 PM
Surr: p-Terphenyl	0	0	30-130	SDO	%REC	10	2/2/2010 01:42 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 08:11 PM
Surr: Bromofluorobenzene (FID)	94.3	0	59-145		%REC	1	1/29/2010 08:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-205-5
Lab Order:	109849	**Collection Date:**	1/27/2010 9:24:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-011A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	2.9	1.0	1.0		mg/Kg	1	2/2/2010 04:06 PM
T/R Hydrocarbons: C23-C32	22	1.0	1.0		mg/Kg	1	2/2/2010 04:06 PM
T/R Hydrocarbons:>C32	36	1.0	1.0		mg/Kg	1	2/2/2010 04:06 PM
Surr: p-Terphenyl	81.5	0	30-130		%REC	1	2/2/2010 04:06 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 08:25 PM
Surr: Bromofluorobenzene (FID)	98.0	0	59-145		%REC	1	1/29/2010 08:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-205-5D
Lab Order:	109849	**Collection Date:**	1/27/2010 9:26:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-012A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100201D**	QC Batch: **61479**				PrepDate: **1/29/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	10	10		mg/Kg	10	2/1/2010 08:24 PM
T/R Hydrocarbons: C23-C32	58	10	10		mg/Kg	10	2/1/2010 08:24 PM
T/R Hydrocarbons:>C32	190	10	10		mg/Kg	10	2/1/2010 08:24 PM
Surr: p-Terphenyl	0	0	30-130	SDO	%REC	10	2/1/2010 08:24 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 08:40 PM
Surr: Bromofluorobenzene (FID)	100	0	59-145		%REC	1	1/29/2010 08:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-205-10
Lab Order:	109849	**Collection Date:**	1/27/2010 9:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-013A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:30 PM
T/R Hydrocarbons: C23-C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:30 PM
T/R Hydrocarbons:>C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:30 PM
Surr: p-Terphenyl	86.7	0	30-128		%REC	1	2/5/2010 10:30 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 11:49 PM
Surr: Bromofluorobenzene (FID)	91.7	0	59-145		%REC	1	1/29/2010 11:49 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-205-15
Lab Order:	109849	**Collection Date:**	1/27/2010 9:34:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-014A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:57 PM
T/R Hydrocarbons: C23-C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:57 PM
T/R Hydrocarbons:>C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:57 PM
Surr: p-Terphenyl	81.1	0	30-128		%REC	1	2/5/2010 10:57 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129B**	QC Batch: **E10VS029**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/29/2010 08:54 PM
Surr: Bromofluorobenzene (FID)	95.0	0	59-145		%REC	1	1/29/2010 08:54 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-206-0.5
Lab Order:	109849	**Collection Date:**	1/27/2010 10:15:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-015A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	10	10		mg/Kg	10	2/6/2010 12:01 AM
T/R Hydrocarbons: C23-C32	45	10	10		mg/Kg	10	2/6/2010 12:01 AM
T/R Hydrocarbons:>C32	89	10	10		mg/Kg	10	2/6/2010 12:01 AM
Surr: p-Terphenyl	0	0	30-128	SDO	%REC	10	2/6/2010 12:01 AM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 12:18 AM
Surr: Bromofluorobenzene (FID)	96.5	0	59-145		%REC	1	1/30/2010 12:18 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-206-0.5D
Lab Order:	109849	**Collection Date:**	1/27/2010 10:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-016A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	10	10		mg/Kg	10	2/5/2010 11:52 PM
T/R Hydrocarbons: C23-C32	100	10	10		mg/Kg	10	2/5/2010 11:52 PM
T/R Hydrocarbons:>C32	130	10	10		mg/Kg	10	2/5/2010 11:52 PM
Surr: p-Terphenyl	0	0	30-128	SDO	%REC	10	2/5/2010 11:52 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 12:33 AM
Surr: Bromofluorobenzene (FID)	97.1	0	59-145		%REC	1	1/30/2010 12:33 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-206-5
Lab Order:	109849	**Collection Date:**	1/27/2010 10:27:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-017A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/5/2010 11:25 PM
T/R Hydrocarbons: C23-C32	1.2	1.0	1.0		mg/Kg	1	2/5/2010 11:25 PM
T/R Hydrocarbons:>C32	2.1	1.0	1.0		mg/Kg	1	2/5/2010 11:25 PM
Surr: p-Terphenyl	73.3	0	30-128		%REC	1	2/5/2010 11:25 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 12:47 AM
Surr: Bromofluorobenzene (FID)	99.5	0	59-145		%REC	1	1/30/2010 12:47 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-206-10
Lab Order:	109849	**Collection Date:**	1/27/2010 10:33:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-018A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:48 PM
T/R Hydrocarbons: C23-C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:48 PM
T/R Hydrocarbons:>C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 10:48 PM
Surr: p-Terphenyl	76.3	0	30-128		%REC	1	2/5/2010 10:48 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 01:02 AM
Surr: Bromofluorobenzene (FID)	95.5	0	59-145		%REC	1	1/30/2010 01:02 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-206-15
Lab Order:	109849	**Collection Date:**	1/27/2010 10:40:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-019A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/5/2010 11:16 PM
T/R Hydrocarbons: C23-C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 11:16 PM
T/R Hydrocarbons:>C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 11:16 PM
Surr: p-Terphenyl	103	0	30-128		%REC	1	2/5/2010 11:16 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 01:17 AM
Surr: Bromofluorobenzene (FID)	98.1	0	59-145		%REC	1	1/30/2010 01:17 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-207-0.5
Lab Order:	109849	**Collection Date:**	1/27/2010 11:08:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109849-020A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	10	10		mg/Kg	10	2/5/2010 11:43 PM
T/R Hydrocarbons: C23-C32	54	10	10		mg/Kg	10	2/5/2010 11:43 PM
T/R Hydrocarbons:>C32	78	10	10		mg/Kg	10	2/5/2010 11:43 PM
Surr: p-Terphenyl	0	0	30-128	SDO	%REC	10	2/5/2010 11:43 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 01:31 AM
Surr: Bromofluorobenzene (FID)	100	0	59-145		%REC	1	1/30/2010 01:31 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-207-5
Lab Order:	109849	**Collection Date:**	1/27/2010 11:22:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOLID
Lab ID:	109849-021A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/5/2010 11:34 PM
T/R Hydrocarbons: C23-C32	7.2	1.0	1.0		mg/Kg	1	2/5/2010 11:34 PM
T/R Hydrocarbons:>C32	11	1.0	1.0		mg/Kg	1	2/5/2010 11:34 PM
Surr: p-Terphenyl	81.6	0	30-128		%REC	1	2/5/2010 11:34 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100201A**	QC Batch: **E10VS031**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	2/1/2010 11:51 AM
Surr: Bromofluorobenzene (FID)	94.0	0	59-145		%REC	1	2/1/2010 11:51 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-207-10
Lab Order:	109849	**Collection Date:**	1/27/2010 11:28:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOLID
Lab ID:	109849-022A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100205A**	QC Batch: **61615**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	2/5/2010 11:07 PM
T/R Hydrocarbons: C23-C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 11:07 PM
T/R Hydrocarbons:>C32	ND	1.0	1.0		mg/Kg	1	2/5/2010 11:07 PM
Surr: p-Terphenyl	85.9	0	30-128		%REC	1	2/5/2010 11:07 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 01:46 AM
Surr: Bromofluorobenzene (FID)	76.4	0	59-145		%REC	1	1/30/2010 01:46 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-207-15
Lab Order:	109849	**Collection Date:**	1/27/2010 11:32:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOLID
Lab ID:	109849-023A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3550B		**EPA 8015B(M)**				
RunID: **GC16_100204B**	QC Batch: **61594**				PrepDate: **2/4/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	2.4	1.0	1.0		mg/Kg	1	2/6/2010 12:10 AM
T/R Hydrocarbons: C23-C32	11	1.0	1.0		mg/Kg	1	2/6/2010 12:10 AM
T/R Hydrocarbons:>C32	14	1.0	1.0		mg/Kg	1	2/6/2010 12:10 AM
Surr: p-Terphenyl	87.7	0	30-128		%REC	1	2/6/2010 12:10 AM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100129C**	QC Batch: **E10VS030**				PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/30/2010 02:00 AM
Surr: Bromofluorobenzene (FID)	96.2	0	59-145		%REC	1	1/30/2010 02:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *09-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-SS2
Lab Order:	109849	**Collection Date:**	1/27/2010 10:00:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109849-024A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
T/R Hydrocarbons: C8-C12	ND	0.050	0.050		mg/L	1	1/29/2010 04:42 PM
T/R Hydrocarbons: C13-C22	ND	0.050	0.050		mg/L	1	1/29/2010 04:42 PM
T/R Hydrocarbons: C23-C32	ND	0.050	0.050		mg/L	1	1/29/2010 04:42 PM
T/R Hydrocarbons:>C32	ND	0.050	0.050		mg/L	1	1/29/2010 04:42 PM
Surr: p-Terphenyl	103	0	35-131		%REC	1	1/29/2010 04:42 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_SEMI_LL

Sample ID: **MB-61478** SampType: **MBLK** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **PBS** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/1/2010** SeqNo: **1866932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	1.0									
T/R Hydrocarbons: C13-C22	ND	1.0									
T/R Hydrocarbons: C23-C32	ND	1.0									
T/R Hydrocarbons:>C32	ND	1.0									
Surr: p-Terphenyl	3.540		2.670		133	30	130				S

Sample ID: **109822-009ADUP** SampType: **DUP** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **ZZZZZZ** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/2/2010** SeqNo: **1870595**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	1.0						0	0	20	
T/R Hydrocarbons: C13-C22	1.175	1.0						2.113	57.1	20	R
T/R Hydrocarbons: C23-C32	11.058	1.0						15.48	33.3	20	R
T/R Hydrocarbons:>C32	22.802	1.0						38.24	50.6	20	R
Surr: p-Terphenyl	3.152		2.670		118	30	128		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_SEMI_LL

Sample ID: **MB-61479** SampType: **MBLK** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117613**
Client ID: **PBS** Batch ID: **61479** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/1/2010** SeqNo: **1868099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	1.0									
T/R Hydrocarbons: C13-C22	ND	1.0									
T/R Hydrocarbons: C23-C32	ND	1.0									
T/R Hydrocarbons:>C32	ND	1.0									
Surr: p-Terphenyl	3.266		2.670		122	30	130				

Sample ID: **109849-004ADUP** SampType: **DUP** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117613**
Client ID: **1087-202-10** Batch ID: **61479** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/1/2010** SeqNo: **1868106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	1.0						0	0	20	
T/R Hydrocarbons: C13-C22	2.433	1.0						2.194	10.4	20	
T/R Hydrocarbons: C23-C32	13.955	1.0						6.599	71.6	20	R
T/R Hydrocarbons:>C32	23.924	1.0						9.886	83.0	20	R
Surr: p-Terphenyl	2.892		2.670		108	30	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_SEMI_LL

Sample ID: **MB-61594**	SampType: **MBLK**	TestCode: **HC_S_SEMI_**	Units: **mg/Kg**	Prep Date: **2/4/2010**	RunNo: **117669**							
Client ID: **PBS**	Batch ID: **61594**	TestNo: **EPA 8015B(M EPA 3550B**	Analysis Date: **2/4/2010**	SeqNo: **1871192**								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
T/R Hydrocarbons: C8-C12	ND	1.0										
T/R Hydrocarbons: C13-C22	ND	1.0										
T/R Hydrocarbons: C23-C32	ND	1.0										
T/R Hydrocarbons:>C32	ND	1.0										
Surr: p-Terphenyl	3.471		5.340		65.0	30	128					

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_SEMI_LL

Sample ID: **MB-61615** SampType: **MBLK** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **2/4/2010** RunNo: **117747**
Client ID: **PBS** Batch ID: **61615** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/5/2010** SeqNo: **1871383**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	1.0									
T/R Hydrocarbons: C13-C22	ND	1.0									
T/R Hydrocarbons: C23-C32	ND	1.0									
T/R Hydrocarbons:>C32	ND	1.0									
Surr: p-Terphenyl	2.067		2.670		77.4	30	128				

Sample ID: **109849-018A-DUP** SampType: **DUP** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **2/4/2010** RunNo: **117747**
Client ID: **1087-206-10** Batch ID: **61615** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/5/2010** SeqNo: **1871388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	1.0						0	0	20	
T/R Hydrocarbons: C13-C22	ND	1.0						0	0	20	
T/R Hydrocarbons: C23-C32	ND	1.0						0	0	20	
T/R Hydrocarbons:>C32	ND	1.0						0	0	20	
Surr: p-Terphenyl	2.304		2.670		86.3	30	128		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **E100129LCS1** SampType: **LCS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117527**
Client ID: **LCSS** Batch ID: **E10VS028** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866597**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.577	1.0	5.000	0	91.5	73	120				
Surr: Bromofluorobenzene (FID)	88.715		100.0		88.7	59	145				

Sample ID: **109843-002AMS** SampType: **MS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117527**
Client ID: **ZZZZZZ** Batch ID: **E10VS028** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866598**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.424	1.0	5.000	0	88.5	39	135				
Surr: Bromofluorobenzene (FID)	93.562		100.0		93.6	59	145				

Sample ID: **109843-002AMSD** SampType: **MSD** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117527**
Client ID: **ZZZZZZ** Batch ID: **E10VS028** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.370	1.0	5.000	0	87.4	39	135	4.424	1.23	20	
Surr: Bromofluorobenzene (FID)	117.388		100.0		117	59	145		0	0	

Sample ID: **E100129MB1** SampType: **MBLK** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117527**
Client ID: **PBS** Batch ID: **E10VS028** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866600**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0									
Surr: Bromofluorobenzene (FID)	89.416		100.0		89.4	59	145				

Sample ID: **109843-002ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117527**
Client ID: **ZZZZZZ** Batch ID: **E10VS028** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **109843-002ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117527**
Client ID: **ZZZZZZ** Batch ID: **E10VS028** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	94.987		100.0		95.0	59	145		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **E100129LCS3** SampType: **LCS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117530**
Client ID: **LCSS** Batch ID: **E10VS029** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866605**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.384	1.0	5.000	0	87.7	73	120				
Surr: Bromofluorobenzene (FID)	87.320		100.0		87.3	59	145				

Sample ID: **109849-003AMS** SampType: **MS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117530**
Client ID: **1087-202-5** Batch ID: **E10VS029** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	3.999	1.0	5.000	0	80.0	39	135				
Surr: Bromofluorobenzene (FID)	93.958		100.0		94.0	59	145				

Sample ID: **109849-003AMSD** SampType: **MSD** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117530**
Client ID: **1087-202-5** Batch ID: **E10VS029** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	3.919	1.0	5.000	0	78.4	39	135	3.999	2.02	20	
Surr: Bromofluorobenzene (FID)	99.414		100.0		99.4	59	145		0	0	

Sample ID: **E100129MB2** SampType: **MBLK** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117530**
Client ID: **PBS** Batch ID: **E10VS029** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866608**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0									
Surr: Bromofluorobenzene (FID)	91.126		100.0		91.1	59	145				

Sample ID: **109849-003ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117530**
Client ID: **1087-202-5** Batch ID: **E10VS029** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **109849-003ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117530**
Client ID: **1087-202-5** Batch ID: **E10VS029** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1866610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	101.000		100.0		101	59	145		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **E100129LCS5** SampType: **LCS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117556**
Client ID: **LCSS** Batch ID: **E10VS030** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1867060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.319	1.0	5.000	0	86.4	73	120				
Surr: Bromofluorobenzene (FID)	89.173		100.0		89.2	59	145				

Sample ID: **109849-013AMS** SampType: **MS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117556**
Client ID: **1087-205-10** Batch ID: **E10VS030** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1867061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	3.919	1.0	5.000	0	78.4	39	135				
Surr: Bromofluorobenzene (FID)	114.770		100.0		115	59	145				

Sample ID: **109849-013AMSD** SampType: **MSD** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117556**
Client ID: **1087-205-10** Batch ID: **E10VS030** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1867062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.109	1.0	5.000	0	82.2	39	135	3.919	4.73	20	
Surr: Bromofluorobenzene (FID)	97.428		100.0		97.4	59	145		0	0	

Sample ID: **E100129MB3** SampType: **MBLK** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117556**
Client ID: **PBS** Batch ID: **E10VS030** TestNo: **EPA 8015B(M** Analysis Date: **1/29/2010** SeqNo: **1867063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0									
Surr: Bromofluorobenzene (FID)	86.272		100.0		86.3	59	145				

Sample ID: **109849-013ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117556**
Client ID: **1087-205-10** Batch ID: **E10VS030** TestNo: **EPA 8015B(M** Analysis Date: **1/30/2010** SeqNo: **1867065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
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CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **109849-013ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117556**
Client ID: **1087-205-10** Batch ID: **E10VS030** TestNo: **EPA 8015B(M** Analysis Date: **1/30/2010** SeqNo: **1867065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	92.403		100.0		92.4	59	145		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **E100201LCS1** SampType: **LCS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117559**
Client ID: **LCSS** Batch ID: **E10VS031** TestNo: **EPA 8015B(M** Analysis Date: **2/1/2010** SeqNo: **1867097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.761	1.0	5.000	0	95.2	73	120				
Surr: Bromofluorobenzene (FID)	93.280		100.0		93.3	59	145				

Sample ID: **109849-021AMS** SampType: **MS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117559**
Client ID: **1087-207-5** Batch ID: **E10VS031** TestNo: **EPA 8015B(M** Analysis Date: **2/1/2010** SeqNo: **1867098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	3.863	1.0	5.000	0	77.3	39	135				
Surr: Bromofluorobenzene (FID)	117.506		100.0		118	59	145				

Sample ID: **109849-021AMSD** SampType: **MSD** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117559**
Client ID: **1087-207-5** Batch ID: **E10VS031** TestNo: **EPA 8015B(M** Analysis Date: **2/1/2010** SeqNo: **1867099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	3.527	1.0	5.000	0	70.5	39	135	3.863	9.09	20	
Surr: Bromofluorobenzene (FID)	107.563		100.0		108	59	145		0	0	

Sample ID: **E100129MB1** SampType: **MBLK** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117559**
Client ID: **PBS** Batch ID: **E10VS031** TestNo: **EPA 8015B(M** Analysis Date: **2/1/2010** SeqNo: **1867100**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0									
Surr: Bromofluorobenzene (FID)	90.843		100.0		90.8	59	145				

Sample ID: **109889-001DDUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117559**
Client ID: **ZZZZZZ** Batch ID: **E10VS031** TestNo: **EPA 8015B(M** Analysis Date: **2/1/2010** SeqNo: **1867103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **109889-001DDUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117559**
Client ID: **ZZZZZZ** Batch ID: **E10VS031** TestNo: **EPA 8015B(M** Analysis Date: **2/1/2010** SeqNo: **1867103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	94.663		100.0		94.7	59	145		0	0	

Sample ID: **E100201LCSD** SampType: **LCSD** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117559**
Client ID: **LCSS02** Batch ID: **E10VS031** TestNo: **EPA 8015B(M** Analysis Date: **2/1/2010** SeqNo: **1867109**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.570	1.0	5.000	0	91.4	73	120	4.761	4.09	20	
Surr: Bromofluorobenzene (FID)	88.295		100.0		88.3	59	145		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: HC_W_SEMI_LL

Sample ID: **MB-61446** SampType: **MBLK** TestCode: **HC_W_SEMI** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **PBW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C8-C12	ND	0.050									
T/R Hydrocarbons: C13-C22	ND	0.050									
T/R Hydrocarbons: C23-C32	ND	0.050									
T/R Hydrocarbons:>C32	ND	0.050									
Surr: p-Terphenyl	0.066		0.08000		82.8	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61478

Sample ID: **LCS-61478** SampType: **LCS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **LCSS** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/1/2010** SeqNo: **1867388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	30.077	1.0	33.00	0	91.1	35	124				
Surr: p-Terphenyl	3.099		2.670		116	30	130				

Sample ID: **109849-010AMS** SampType: **MS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **1087-205-0.5** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/2/2010** SeqNo: **1867407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	116.563	10	33.00	162.3	-139	12	125				S
Surr: p-Terphenyl	0		2.670		0	30	130				SDO

Sample ID: **109849-010AMSD** SampType: **MSD** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117544**
Client ID: **1087-205-0.5** Batch ID: **61478** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/2/2010** SeqNo: **1867408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	147.030	10	33.00	162.3	-46.3	12	125	116.6	23.1	20	SR
Surr: p-Terphenyl	0		2.670		0	30	130		0	0	SDO

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61479

Sample ID: **LCS-61479** SampType: **LCS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117613**
Client ID: **LCSS** Batch ID: **61479** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/1/2010** SeqNo: **1868083**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	32.002	1.0	33.00	0	97.0	35	124				
Surr: p-Terphenyl	3.046		2.670		114	30	130				

Sample ID: **109849-004AMS** SampType: **MS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117613**
Client ID: **1087-202-10** Batch ID: **61479** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/2/2010** SeqNo: **1868097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	29.336	1.0	33.00	5.376	72.6	12	125				
Surr: p-Terphenyl	2.847		2.670		107	30	130				

Sample ID: **109849-004AMSD** SampType: **MSD** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/29/2010** RunNo: **117613**
Client ID: **1087-202-10** Batch ID: **61479** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/2/2010** SeqNo: **1868098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	30.414	1.0	33.00	5.376	75.9	12	125	29.34	3.61	20	
Surr: p-Terphenyl	3.023		2.670		113	30	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61594

Sample ID: **109894-002AMS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **2/4/2010** RunNo: **117669**
Client ID: **ZZZZZZ** Batch ID: **61594** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/4/2010** SeqNo: **1869707**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	26.570	1.0	66.00	5.681	31.7	25	129				
Surr: p-Terphenyl	3.312		5.340		62.0	30	128				

Sample ID: **LCS-61594** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **2/4/2010** RunNo: **117669**
Client ID: **LCSS** Batch ID: **61594** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/4/2010** SeqNo: **1869709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	26.880	1.0	66.00	0	40.7	35	118				
Surr: p-Terphenyl	3.316		5.340		62.1	30	128				

Sample ID: **109894-002AMSD** SampType: **MSD** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **2/4/2010** RunNo: **117669**
Client ID: **ZZZZZZ** Batch ID: **61594** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/4/2010** SeqNo: **1869713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	23.897	1.0	66.00	5.681	27.6	25	129	26.57	10.6	20	
Surr: p-Terphenyl	2.950		5.340		55.2	30	128		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109849
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ANALYTICAL QC SUMMARY REPORT

BatchID: 61615

Sample ID: **LCS-61615** SampType: **LCS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **2/4/2010** RunNo: **117747**
Client ID: **LCSS** Batch ID: **61615** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/5/2010** SeqNo: **1871369**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	25.567	1.0	33.00	0	77.5	35	118				
Surr: p-Terphenyl	2.170		2.670		81.3	30	128				

Sample ID: **109849-013AMS** SampType: **MS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **2/4/2010** RunNo: **117747**
Client ID: **1087-205-10** Batch ID: **61615** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/5/2010** SeqNo: **1871370**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	22.449	1.0	33.00	0	68.0	25	129				
Surr: p-Terphenyl	2.468		2.670		92.4	30	128				

Sample ID: **109849-013AMSD** SampType: **MSD** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **2/4/2010** RunNo: **117747**
Client ID: **1087-205-10** Batch ID: **61615** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **2/5/2010** SeqNo: **1871371**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	22.740	1.0	33.00	0	68.9	25	129	22.45	1.29	20	
Surr: p-Terphenyl	2.269		2.670		85.0	30	128		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

BatchID: 61446

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DM_** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.050	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DM_** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.050	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DM_** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.050	1.000	0	84.5	42	118				
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866291**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.20	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
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ANALYTICAL QC SUMMARY REPORT

BatchID: 61446

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.20	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.20	1.000	0	84.5	42	118				
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.050	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.050	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.050	1.000	0	84.5	42	118				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 109849
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61446

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date: 1/27/10

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other:

Sample Condition Upon Receipt:
1. CHILLED 2.2 Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N/A N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Nancy Anglin
Address: 475 Goddard, Suite 200
City: Irvine State: CA Zip Code: 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: CaTrans TC-16 Project #: 207126001G Sampler: (Printed Name) Zack Mason (Signature) Zack Mason

Relinquished by: (Signature and Printed Name) Zack Mason Date: 1/27/10 Time: 14:30 Received by: (Signature and Printed Name) FEDEX Date: 1/27/10 Time: 1430
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Zack Mason 1/27/10
Print Name Date
Zack Mason
Signature

Send Report To: Attn: Nancy Anglin
Co:
Address
City State Zip

Bill To: Attn:
Co:
Address
City State Zip

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) / 8020 (BTEX), 8015B (DRO) TPH carbon chain, 8021 (BTEX), TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX: SOIL, WATER, GROUND WATER, WASTEWATER

Q A / Q C: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8015B (GRO) / 8020 (BTEX)	SOIL	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	109849 001	1087-202-0.5	1/27/10	07:10	X	X	5	1	J	–	
	2	1087-202-0.5D		07:12	X	X		1	J	–	
	3	1087-202-5		07:27	X	X		1	T		
	4	1087-202-10		07:36	X	X		1	T		
	5	1087-202-15		07:41	X	X		1	T		
	6	1087-204-0.5		08:30	X	X		1	J		
	7	1087-204-5		08:36	X	X		1	T		
	8	1087-204-10		08:42	X	X		1	T		
	9	1087-204-15		08:45	X	X		1	T		
	10	1087-205-0.5		09:11	X	X		1	J		

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other: _____

Sample Condition Upon Receipt:
1. CHILLED Y☑ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Ninyo & Moore
Attn: Nancy Anglin
Address: 475 Goddard Suite 200
City Irvine State CA Zip Code 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Caltrans TO-16 Project #: 207126016 Sampler: (Printed Name) Zack Mason (Signature) Zack Mason

Relinquished by: (Signature and Printed Name) Zack Mason Date: 1/27/10 Time: 14:30 Received by: (Signature and Printed Name) FPDIWA Date: 1/27/10 Time: 1430
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Zack Mason 1/27/10 (Print Name / Date)
Signature: Zack Mason

Send Report To: Attn: Nancy Anglin
Co: _____
Address _____
City _____ State _____ Zip _____

Bill To: Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) / 8020 (BTEX), 8015B (DRO) TPH carbon chain, 8021 (BTEX), TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX: SOIL, WATER, GROUND WATER, WASTEWATER

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode _____ OTHER _____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8015B (GRO) / 8020 (BTEX)	SOIL	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	1098447- 11	1087-205-5	1/27/10	09:24	X	X	5	1	T	–	
	12	1087-205-5D	↓	09:26	X	X	↓	1	T	↓	
	13	1087-205-10	↓	09:30	X	X	↓	1	T	↓	
	14	1087-205-15	↓	09:34	X	X	↓	1	T	↓	
	15	1087-206-0.5	↓	10:15	X	X	↓	1	J	↓	
	16	1087-206-0.5D	↓	10:20	X	X	↓	1	J	↓	
	17	1087-206-5	↓	10:27	X	X	↓	1	T	↓	
	18	1087-206-10	↓	10:33	X	X	↓	1	T	↓	
	19	1087-206-15	↓	10:40	X	X	↓	1	T	↓	
	20	1087-207-0.5	↓	11:08	X	X	↓	1	J	↓	

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other: _____

Sample Condition Upon Receipt:
1. CHILLED Y☑ N☐ 4. CUSTODY SEAL Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Ninyo & Moore
Attn: Nancy Anglin
Address: 475 Goddard, Suite 200
City: Irvine State: CA Zip Code:
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: CalTrans TO-16 Project #: 207126016 Sampler: (Printed Name) Zack Mason (Signature) Zack Mason

Relinquished by: (Signature and Printed Name) Zack Mason Date: 1/27/10 Time: 14:30 Received by: (Signature and Printed Name) FEDEX Date: 1/27/10 Time: 1430
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Zack Mason 1/27/10 (Print Name, Date)
Signature: Zack Mason

Send Report To: Attn: Nancy Anglin
Co:
Address
City State Zip

Bill To: Attn:
Co:
Address
City State Zip

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) / 8020 (BTEX), 8015B (DRO) TPH Carbon Chain, 8021 (BTEX), TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX: SOLID, SOIL, DRINKING WATER, GROUND WATER, WASTEWATER, STORMWATER, AQUEOUS

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8015B (GRO) / 8020 (BTEX)	SOLID	SOIL	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	109849-21	1087-207-5	1/27/10	11:22	X	X		5	1	T	–	
	22	1087-207-10	↓	11:28	X	X		↓	1	T	–	
	23	1087-207-15	↓	11:32	X	X		↓	1	T	–	
	24	1087-ERB-552	↓	10:00	X		X	↓		L	–	

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

February 08, 2010

Nancy Anglin
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618

TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 109828

RE: Caltrans TO-16, 207126016

Attention: Nancy Anglin

Enclosed are the results for sample(s) received on January 27, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Project: Caltrans TO-16, 207126016
Lab Order: 109828
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109828-001A	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001B	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001C	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001D	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001E	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001F	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001G	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001H	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001I	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001J	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001K	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001L	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001M	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001N	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001O	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-001P	1087-201-W	Groundwater	1/26/2010 11:20:00 AM	1/27/2010	2/8/2010
109828-002A	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002B	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002C	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002D	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002E	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002F	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002G	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002H	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002I	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002J	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002K	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002L	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002M	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Project: Caltrans TO-16, 207126016
Lab Order: 109828
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109828-002N	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002O	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-002P	1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	1/27/2010	2/8/2010
109828-003A	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003B	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003C	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003D	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003E	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003F	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003G	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003H	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003I	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003J	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003K	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003L	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003M	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003N	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003O	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-003P	1087-203-W	Groundwater	1/26/2010 3:00:00 PM	1/27/2010	2/8/2010
109828-004A	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004B	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004C	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004D	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004E	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004F	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004G	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004H	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004I	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004J	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004K	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010

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CLIENT: Ninyo & Moore
Project: Caltrans TO-16, 207126016
Lab Order: 109828
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
109828-004L	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004M	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004N	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-004O	1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	1/27/2010	2/8/2010
109828-005A	Trip Blank	Drinking Water		1/27/2010	2/8/2010

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The samples for EPA 504 (EDB) analysis were subcontracted to Associated Laboratory with ELAP Cert.# 1338.

The samples for SM5210B (BOD) analysis were subcontracted to American Scientific Laboratories with ELAP Cert.# 2200.

Sample Receiving / General Comments

Samples received beyond holding time for SM4500-H+B (pH) analysis.

Headspace <5-6mm was noted on 2 voa vials of sample 1087-201-W.

Sample for Trip Blank was not labelled.

Limited sample received for 1087-203-W for EPA 608 analysis, sample volume was about 3/4 full of the 1 liter amber glass.

Sample 1087-201-WD, 2 of the voa vials are darker than the rest of the vials. Sample 1087-201-W, 6 of voa vials are darker than the rest of the vials.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

The following are results for Trivalent Chromium by calculation (Total chromium subtracts hexavalent chromium):

1087-201-W, 110 ug/L
1087-201-WD, 880 ug/L
1087-203-W, 470 ug/L
1087-ERB-W, ND

Analytical Comments for 1664 (Oil & Grease)

Sample 109899-002F-MSD, Matrix Spike Duplicate (MSD) is outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

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Analytical Comments for EPA 1664 (TRPH)

Samples MB-61653-MS and MB-61653-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 200.8

Samples 109828-001I, 109828-002I, 109828-003I, 109828-001P, 109828-002P and 109828-003P, dilution was necessary due to internal standard failure.

Sample 109828-004I-MSD, RPD for Matrix Spike Duplicate (MSD) is outside criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Samples 109828-002I and 109828-002P, the reported value of Dissolved Antimony is higher than Total Antimony. The results reported are within the 10% method tolerance limit.

Analytical Comments for EPA 300.0

Samples 109810-001A-MS and 109810-001A-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Samples 109828-004A-DUP, 109828-004A-MS, 109828-004A-MSD, 109835-003A-DUP, 109835-003A-MS and 109835-003A-MSD wre analyzed beyond hold time.

Analytical Comments for EPA 625/8270C

Sample 109828-004E, surrogate recovery biased low possibly due to matrix interferences.

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Lab Order: 109828
Project: Caltrans TO-16, 207126016
Lab ID: 109828-001A

Client Sample ID: 1087-201-W
Collection Date: 1/26/2010 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PERCHLORATE BY ION CHROMATOGRAPHY							
			EPA 314.0				
RunID: **IC4_100129A**	QC Batch: **R117507**				PrepDate:		Analyst: **JSD**
Perchlorate	ND	5.2	10		µg/L	5	1/29/2010 03:32 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100130A**	QC Batch: **R117491**				PrepDate:		Analyst: **JSD**
Chloride	540	13	50		mg/L	100	1/30/2010 05:12 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100127A**	QC Batch: **R117428**				PrepDate:		Analyst: **JSD**
Nitrogen, Nitrite	ND	0.47	1.0		mg/L	10	1/27/2010 03:57 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100127A**	QC Batch: **R117428**				PrepDate:		Analyst: **JSD**
Nitrogen, Nitrate (As N)	ND	0.36	1.0		mg/L	10	1/27/2010 03:57 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100130A**	QC Batch: **R117491**				PrepDate:		Analyst: **JSD**
Sulfate	2800	22	100		mg/L	100	1/30/2010 05:12 PM
PH							
			SM4500-H+B				
RunID: **PH4_100127A**	QC Batch: **R117472**				PrepDate:		Analyst: **FD**
pH	7.6	0.10	0.10	H	pH Units	1	1/27/2010
TURBIDITY							
			EPA 180.1				
RunID: **TURB_100128B**	QC Batch: **R117538**				PrepDate:		Analyst: **MP**
Turbidity	48000	100	100		NTU	1000	1/28/2010

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SETTLEABLE MATTER							
			SM2540F				
RunID: **WETCHEM_100127A**	QC Batch: **61425**				PrepDate:	**1/27/2010**	Analyst: **CBB**
Settleable Matter	180	0.11	0.11		ml/L	1	1/27/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
				SM2540C			
RunID: **WETCHEM_100202B**	QC Batch: **61559**				PrepDate: **2/1/2010**		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	6800	22	67		mg/L	1	2/1/2010 08:22 PM
TOTAL NON-FILTERABLE RESIDUE							
				SM2540D			
RunID: **WETCHEM_100129G**	QC Batch: **61475**				PrepDate: **1/29/2010**		Analyst: **DDL**
Suspended Solids (Residue, Non-Filterable)	14000	100	100		mg/L	1	1/29/2010 10:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001D		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
OIL & GREASE							
			EPA 1664 _HEM				
RunID: **WETCHEM2_100204A**	QC Batch: **61595**				PrepDate:	**2/3/2010**	Analyst: **JSD**
Oil & Grease	1.1	0.67	4.7	J	mg/L	1	2/4/2010
TOTAL PETROLEUM HYDROCARBONS							
			EPA 1664_SGT/HEM				
RunID: **WETCHEM2_100205B**	QC Batch: **61653**				PrepDate:	**2/4/2010**	Analyst: **JSD**
Total Petroleum Hydrocarbons	0.57	0.56	2.3	J	mg/L	1	2/5/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001E		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C **EPA 625**

RunID: **MS 13_100201B** QC Batch: **61508** PrepDate: **2/1/2010** Analyst: **SMH**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	3.7	10		µg/L	1	2/2/2010 12:20 AM
1,2-Dichlorobenzene	ND	2.5	10		µg/L	1	2/2/2010 12:20 AM
1,2-Diphenylhydrazine	ND	4.4	10		µg/L	1	2/2/2010 12:20 AM
1,3-Dichlorobenzene	ND	2.6	10		µg/L	1	2/2/2010 12:20 AM
1,4-Dichlorobenzene	ND	2.6	10		µg/L	1	2/2/2010 12:20 AM
2,4,6-Trichlorophenol	ND	3.4	10		µg/L	1	2/2/2010 12:20 AM
2,4-Dichlorophenol	ND	3.0	10		µg/L	1	2/2/2010 12:20 AM
2,4-Dimethylphenol	ND	2.7	10		µg/L	1	2/2/2010 12:20 AM
2,4-Dinitrophenol	ND	5.6	50		µg/L	1	2/2/2010 12:20 AM
2,4-Dinitrotoluene	ND	3.7	10		µg/L	1	2/2/2010 12:20 AM
2,6-Dinitrotoluene	ND	3.8	10		µg/L	1	2/2/2010 12:20 AM
2-Chloronaphthalene	ND	3.8	10		µg/L	1	2/2/2010 12:20 AM
2-Chlorophenol	ND	2.3	10		µg/L	1	2/2/2010 12:20 AM
2-Nitrophenol	ND	3.1	10		µg/L	1	2/2/2010 12:20 AM
3,3´-Dichlorobenzidine	ND	3.6	20		µg/L	1	2/2/2010 12:20 AM
4,6-Dinitro-2-methylphenol	ND	4.2	50		µg/L	1	2/2/2010 12:20 AM
4-Bromophenyl-phenylether	ND	4.9	10		µg/L	1	2/2/2010 12:20 AM
4-Chloro-3-methylphenol	ND	3.2	50		µg/L	1	2/2/2010 12:20 AM
4-Chlorophenyl-phenylether	ND	4.8	10		µg/L	1	2/2/2010 12:20 AM
4-Nitrophenol	ND	3.0	50		µg/L	1	2/2/2010 12:20 AM
Acenaphthene	ND	3.3	10		µg/L	1	2/2/2010 12:20 AM
Acenaphthylene	ND	3.2	10		µg/L	1	2/2/2010 12:20 AM
Anthracene	ND	4.1	10		µg/L	1	2/2/2010 12:20 AM
Benzidine (M)	ND	5.9	50		µg/L	1	2/2/2010 12:20 AM
Benzo(a)anthracene	ND	3.7	10		µg/L	1	2/2/2010 12:20 AM
Benzo(a)pyrene	ND	3.6	10		µg/L	1	2/2/2010 12:20 AM
Benzo(b)fluoranthene	ND	4.2	10		µg/L	1	2/2/2010 12:20 AM
Benzo(g,h,i)perylene	ND	5.8	10		µg/L	1	2/2/2010 12:20 AM
Benzo(k)fluoranthene	ND	4.2	10		µg/L	1	2/2/2010 12:20 AM
Bis(2-chloroethoxy)methane	ND	3.0	10		µg/L	1	2/2/2010 12:20 AM
Bis(2-chloroethyl)ether	ND	2.6	10		µg/L	1	2/2/2010 12:20 AM
Bis(2-chloroisopropyl)ether	ND	2.5	10		µg/L	1	2/2/2010 12:20 AM
Bis(2-ethylhexyl)phthalate	ND	5.0	10		µg/L	1	2/2/2010 12:20 AM
Butylbenzylphthalate	ND	4.4	10		µg/L	1	2/2/2010 12:20 AM
Chrysene	ND	3.2	10		µg/L	1	2/2/2010 12:20 AM

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001E		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 3510C			**EPA 625**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
Di-n-butylphthalate	ND	4.8	10		µg/L	1	2/2/2010 12:20 AM
Di-n-octylphthalate	ND	5.0	10		µg/L	1	2/2/2010 12:20 AM
Dibenz(a,h)anthracene	ND	4.1	10		µg/L	1	2/2/2010 12:20 AM
Diethylphthalate	ND	4.0	10		µg/L	1	2/2/2010 12:20 AM
Dimethylphthalate	ND	3.5	10		µg/L	1	2/2/2010 12:20 AM
Fluoranthene	ND	4.1	10		µg/L	1	2/2/2010 12:20 AM
Fluorene	ND	3.6	10		µg/L	1	2/2/2010 12:20 AM
Hexachlorobenzene	ND	4.5	10		µg/L	1	2/2/2010 12:20 AM
Hexachlorobutadiene	ND	4.0	20		µg/L	1	2/2/2010 12:20 AM
Hexachlorocyclopentadiene	ND	4.8	10		µg/L	1	2/2/2010 12:20 AM
Hexachloroethane	ND	2.7	10		µg/L	1	2/2/2010 12:20 AM
Indeno(1,2,3-cd)pyrene	ND	4.9	10		µg/L	1	2/2/2010 12:20 AM
Isophorone	ND	3.0	10		µg/L	1	2/2/2010 12:20 AM
N-Nitrosodi-n-propylamine	ND	1.2	10		µg/L	1	2/2/2010 12:20 AM
N-Nitrosodimethylamine	ND	2.5	50		µg/L	1	2/2/2010 12:20 AM
N-Nitrosodiphenylamine	ND	3.8	10		µg/L	1	2/2/2010 12:20 AM
Naphthalene	ND	2.7	10		µg/L	1	2/2/2010 12:20 AM
Nitrobenzene	ND	2.8	10		µg/L	1	2/2/2010 12:20 AM
Pentachlorophenol	ND	4.5	50		µg/L	1	2/2/2010 12:20 AM
Phenanthrene	ND	4.4	10		µg/L	1	2/2/2010 12:20 AM
Phenol	ND	1.6	10		µg/L	1	2/2/2010 12:20 AM
Pyrene	ND	3.7	10		µg/L	1	2/2/2010 12:20 AM
Surr: 1,2-Dichlorobenzene-d4	75.0	0	42-98		%REC	1	2/2/2010 12:20 AM
Surr: 2,4,6-Tribromophenol	94.1	0	60-128		%REC	1	2/2/2010 12:20 AM
Surr: 2-Chlorophenol-d4	57.3	0	43-102		%REC	1	2/2/2010 12:20 AM
Surr: 2-Fluorobiphenyl	81.4	0	50-108		%REC	1	2/2/2010 12:20 AM
Surr: 2-Fluorophenol	33.2	0	22-69		%REC	1	2/2/2010 12:20 AM
Surr: 4-Terphenyl-d14	79.6	0	66-130		%REC	1	2/2/2010 12:20 AM
Surr: Nitrobenzene-d5	79.8	0	47-117		%REC	1	2/2/2010 12:20 AM
Surr: Phenol-d5	25.6	0	16-50		%REC	1	2/2/2010 12:20 AM
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE							
EPA 3510C			**EPA 8270C(M)**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
1,4-Dioxane	ND	1.9	2.0		µg/L	1	2/2/2010 12:20 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001E		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE							
EPA 3510C			**EPA 8270C(M)**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
Surr: 1,2-Dichlorobenzene-d4	77.6	0	42-98		%REC	1	2/2/2010 12:20 AM
Surr: 2,4,6-Tribromophenol	95.0	0	60-128		%REC	1	2/2/2010 12:20 AM
Surr: 2-Chlorophenol-d4	60.2	0	43-102		%REC	1	2/2/2010 12:20 AM
Surr: 2-Fluorobiphenyl	87.0	0	50-108		%REC	1	2/2/2010 12:20 AM
Surr: 2-Fluorophenol	35.2	0	22-69		%REC	1	2/2/2010 12:20 AM
Surr: 4-Terphenyl-d14	80.7	0	66-130		%REC	1	2/2/2010 12:20 AM
Surr: Nitrobenzene-d5	100	0	47-117		%REC	1	2/2/2010 12:20 AM
Surr: Phenol-d5	26.5	0	16-50		%REC	1	2/2/2010 12:20 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001F		

ORGANOCHLORINE PESTICIDES AND PCBS BY GC/ECD

EPA 3510C **EPA 608**

RunID: **GC9_100128A** QC Batch: **61438** PrepDate: **1/28/2010** Analyst: **HL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	0.0050	0.050		µg/L	1	1/28/2010 07:34 PM
4,4´-DDE	ND	0.0050	0.050		µg/L	1	1/28/2010 07:34 PM
4,4´-DDT	ND	0.0050	0.050		µg/L	1	1/28/2010 07:34 PM
Aldrin	ND	0.0050	0.025		µg/L	1	1/28/2010 07:34 PM
alpha-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 07:34 PM
Aroclor 1016	ND	0.10	0.50		µg/L	1	1/28/2010 05:55 PM
Aroclor 1221	ND	0.10	1.0		µg/L	1	1/28/2010 05:55 PM
Aroclor 1232	ND	0.10	0.50		µg/L	1	1/28/2010 05:55 PM
Aroclor 1242	ND	0.10	0.50		µg/L	1	1/28/2010 05:55 PM
Aroclor 1248	ND	0.10	0.50		µg/L	1	1/28/2010 05:55 PM
Aroclor 1254	ND	0.10	0.50		µg/L	1	1/28/2010 05:55 PM
Aroclor 1260	ND	0.10	0.50		µg/L	1	1/28/2010 05:55 PM
beta-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 07:34 PM
Chlordane	ND	0.050	0.25		µg/L	1	1/28/2010 07:34 PM
delta-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 07:34 PM
Dieldrin	ND	0.0050	0.050		µg/L	1	1/28/2010 07:34 PM
Endosulfan I	ND	0.0050	0.025		µg/L	1	1/28/2010 07:34 PM
Endosulfan II	ND	0.0050	0.050		µg/L	1	1/28/2010 07:34 PM
Endosulfan sulfate	ND	0.0050	0.050		µg/L	1	1/28/2010 07:34 PM
Endrin	ND	0.0050	0.050		µg/L	1	1/28/2010 07:34 PM
Endrin aldehyde	ND	0.0050	0.050		µg/L	1	1/28/2010 07:34 PM
gamma-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 07:34 PM
Heptachlor	ND	0.0050	0.025		µg/L	1	1/28/2010 07:34 PM
Heptachlor epoxide	ND	0.0050	0.025		µg/L	1	1/28/2010 07:34 PM
Toxaphene	ND	0.50	2.5		µg/L	1	1/28/2010 07:34 PM
Surr: Decachlorobiphenyl	87.4	0	29-137		%REC	1	1/28/2010 05:55 PM
Surr: Decachlorobiphenyl	86.3	0	29-137		%REC	1	1/28/2010 07:34 PM
Surr: Tetrachloro-m-xylene	82.7	0	47-117		%REC	1	1/28/2010 07:34 PM
Surr: Tetrachloro-m-xylene	75.3	0	47-117		%REC	1	1/28/2010 05:55 PM

Qualifiers:

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ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001G		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
DRO	ND	0.050	0.050		mg/L	1	1/29/2010 05:09 PM
Surr: p-Terphenyl	124	0	35-131		%REC	1	1/29/2010 05:09 PM
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	0.050	0.050		mg/L	1	1/29/2010 05:09 PM
T/R Hydrocarbons: C23-C32	ND	0.050	0.050		mg/L	1	1/29/2010 05:09 PM
T/R Hydrocarbons:>C32	ND	0.050	0.050		mg/L	1	1/29/2010 05:09 PM
Surr: p-Terphenyl	124	0	35-131		%REC	1	1/29/2010 05:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001H		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM							
			EPA 7196A				
RunID: **WETCHEM3_100127A**	QC Batch: **R117369**				PrepDate:	**1/27/2010**	Analyst: **MFP**
Chromium, Hexavalent	ND	0.0086	0.010		mg/L	1	1/27/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-201-W
Lab Order: 109828
Collection Date: 1/26/2010 11:20:00 AM
Project: Caltrans TO-16, 207126016
Matrix: GROUNDWATER
Lab ID: 109828-001I

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3010A		**EPA 200.7**				
RunID: **ICP8_100201C**	QC Batch: **61452**				PrepDate:	**1/29/2010**	Analyst: **CL**
Boron	4.3	0.34	0.50		mg/L	1	2/1/2010 11:19 AM
ICPMS METALS							
	EPA 200.8		**EPA 200.8**				
RunID: **ICP7_100204D**	QC Batch: **61600**				PrepDate:	**2/4/2010**	Analyst: **SRB**
Antimony	2.7	0.85	2.5		µg/L	5	2/4/2010 07:53 PM
Arsenic	29	0.044	1.0		µg/L	1	2/2/2010 02:14 PM
Beryllium	ND	7.8	100		µg/L	200	2/2/2010 07:23 PM
Cadmium	12	0.025	0.50		µg/L	1	2/2/2010 02:14 PM
Chromium	110	0.079	0.50		µg/L	1	2/2/2010 02:14 PM
Copper	61	1.6	5.0		µg/L	5	2/2/2010 09:04 PM
Lead	31	0.10	1.0		µg/L	1	2/2/2010 02:14 PM
Nickel	110	0.13	1.0		µg/L	1	2/2/2010 02:14 PM
Selenium	40	1.6	2.5		µg/L	5	2/2/2010 09:04 PM
Silver	0.18	0.027	0.50	J	µg/L	1	2/2/2010 02:14 PM
Thallium	0.32	0.080	0.50	J	µg/L	1	2/2/2010 02:14 PM
Zinc	540	7.1	50		µg/L	5	2/2/2010 09:04 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 245.1				
RunID: **AA1_100201C**	QC Batch: **61453**				PrepDate:	**1/29/2010**	Analyst: **CL**
Mercury	ND	0.40	1.0		µg/L	1	2/1/2010 11:51 AM
HARDNESS AS CALCIUM CARBONATE							
			SM2340C				
RunID: **WETCHEM_100130A**	QC Batch: **R117498**				PrepDate:		Analyst: **CBB**
Hardness (As CaCO3)	3900	82	200		mg/L	100	1/30/2010

Qualifiers:

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ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001J		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SULFIDE, TOTAL							
			SM4500-S= D				
RunID: **WETCHEM3_100202C**	QC Batch: **R117608**				PrepDate:		Analyst: **MFP**
Sulfide	2.3	1.5	3.0	J	mg/L	300	2/2/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001K		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CYANIDE, TOTAL							
			SM4500-CN E				
RunID: **WETCHEM3_100201E**	QC Batch: **61528**				PrepDate:	**1/29/2010**	Analyst: **MFP**
Cyanide	ND	0.0030	0.010		mg/L	1	2/1/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001L		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 624

RunID: **MS11_100128A** QC Batch: **A10VW023** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	1/28/2010 03:07 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 03:07 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	1/28/2010 03:07 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	1/28/2010 03:07 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 03:07 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	1/28/2010 03:07 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	1/28/2010 03:07 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	1/28/2010 03:07 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 03:07 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	1/28/2010 03:07 PM
2-Chloroethyl vinyl ether	ND	0.14	0.50		µg/L	1	1/28/2010 03:07 PM
Acrolein	ND	1.5	10		µg/L	1	1/28/2010 03:07 PM
Acrylonitrile	ND	1.4	10		µg/L	1	1/28/2010 03:07 PM
Benzene	ND	0.17	0.50		µg/L	1	1/28/2010 03:07 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	1/28/2010 03:07 PM
Bromoform	ND	0.30	0.50		µg/L	1	1/28/2010 03:07 PM
Bromomethane	ND	0.32	0.50		µg/L	1	1/28/2010 03:07 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	1/28/2010 03:07 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 03:07 PM
Chloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 03:07 PM
Chloroform	ND	0.23	0.50		µg/L	1	1/28/2010 03:07 PM
Chloromethane	ND	0.32	0.50		µg/L	1	1/28/2010 03:07 PM
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	1/28/2010 03:07 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	1/28/2010 03:07 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	1/28/2010 03:07 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	1/28/2010 03:07 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 03:07 PM
Toluene	ND	0.22	0.50		µg/L	1	1/28/2010 03:07 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	1/28/2010 03:07 PM
trans-1,3-Dichloropropene	ND	0.35	0.50		µg/L	1	1/28/2010 03:07 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	1/28/2010 03:07 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	1/28/2010 03:07 PM
Surr: 1,2-Dichloroethane-d4	88.9	0	70-130		%REC	1	1/28/2010 03:07 PM
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	1	1/28/2010 03:07 PM
Surr: Dibromofluoromethane	102	0	70-130		%REC	1	1/28/2010 03:07 PM

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001L		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 624							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
Surr: Toluene-d8	116	0	70-130		%REC	1	1/28/2010 03:07 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
2-Butanone	ND	4.0	10		µg/L	1	1/28/2010 03:07 PM
Acetone	ND	5.0	10		µg/L	1	1/28/2010 03:07 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	1/28/2010 03:07 PM
o-Xylene	ND	0.27	0.50		µg/L	1	1/28/2010 03:07 PM
Surr: 1,2-Dichloroethane-d4	88.9	0	70-130		%REC	1	1/28/2010 03:07 PM
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	1	1/28/2010 03:07 PM
Surr: Dibromofluoromethane	102	0	70-130		%REC	1	1/28/2010 03:07 PM
Surr: Toluene-d8	116	0	70-130		%REC	1	1/28/2010 03:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001M		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B(M)				
RunID: **GC6_100127A**	QC Batch:	**I10VW0022**			PrepDate:		Analyst: **BD**
GRO	ND	0.050	0.050		mg/L	1	1/27/2010 03:33 PM
Surr: Bromofluorobenzene (FID)	89.2	0	71-130		%REC	1	1/27/2010 03:33 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC6_100127A**	QC Batch:	**I10VW0022**			PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.050	0.050		mg/L	1	1/27/2010 03:33 PM
T/R Hydrocarbons: C4-C12	ND	0.050	0.20		mg/L	1	1/27/2010 03:33 PM
Surr: Bromofluorobenzene (FID)	89.2	0	71-130		%REC	1	1/27/2010 03:33 PM
Surr: Bromofluorobenzene (FID)	89.2	0	71-130		%REC	1	1/27/2010 03:33 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-W
Lab Order:	109828	**Collection Date:**	1/26/2010 11:20:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-001P		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A		**EPA 200.7**				
RunID: **ICP8_100202B**	QC Batch: **61486**				PrepDate:	**2/1/2010**	Analyst: **CL**
Boron	3.0	0.068	0.10		mg/L	1	2/2/2010 12:10 PM
DISSOLVED METALS BY ICPMS							
	EPA 200.8		**EPA 200.8**				
RunID: **ICP7_100204C**	QC Batch: **61599**				PrepDate:	**2/4/2010**	Analyst: **SRB**
Antimony	2.4	0.17	0.50		µg/L	1	2/4/2010 07:11 PM
Arsenic	8.3	0.044	1.0		µg/L	1	2/2/2010 01:41 PM
Beryllium	ND	7.8	100		µg/L	200	2/2/2010 05:31 PM
Cadmium	0.29	0.025	0.50	J	µg/L	1	2/2/2010 01:41 PM
Chromium	0.34	0.079	0.50	J	µg/L	1	2/2/2010 01:41 PM
Copper	17	0.32	1.0		µg/L	1	2/2/2010 01:41 PM
Lead	0.15	0.10	1.0	J	µg/L	1	2/3/2010 07:48 PM
Nickel	17	0.13	1.0		µg/L	1	2/2/2010 01:41 PM
Selenium	31	1.6	2.5		µg/L	5	2/2/2010 03:43 PM
Silver	0.098	0.027	0.50	J	µg/L	1	2/2/2010 01:41 PM
Thallium	ND	0.080	0.50		µg/L	1	2/2/2010 01:41 PM
Zinc	22	1.4	10		µg/L	1	2/2/2010 01:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Lab Order: 109828
Project: Caltrans TO-16, 207126016
Lab ID: 109828-002A

Client Sample ID: 1087-201-WD
Collection Date: 1/26/2010 11:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PERCHLORATE BY ION CHROMATOGRAPHY							
			EPA 314.0				
RunID: **IC4_100129A**	QC Batch: **R117507**				PrepDate:		Analyst: **JSD**
Perchlorate	ND	5.2	10		µg/L	5	1/29/2010 03:49 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100130A**	QC Batch: **R117491**				PrepDate:		Analyst: **JSD**
Chloride	590	13	50		mg/L	100	1/30/2010 05:34 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100127A**	QC Batch: **R117428**				PrepDate:		Analyst: **JSD**
Nitrogen, Nitrite	ND	0.47	1.0		mg/L	10	1/27/2010 04:09 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100127A**	QC Batch: **R117428**				PrepDate:		Analyst: **JSD**
Nitrogen, Nitrate (As N)	ND	0.36	1.0		mg/L	10	1/27/2010 04:09 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100130A**	QC Batch: **R117491**				PrepDate:		Analyst: **JSD**
Sulfate	2900	22	100		mg/L	100	1/30/2010 05:34 PM
PH							
			SM4500-H+B				
RunID: **PH4_100127A**	QC Batch: **R117472**				PrepDate:		Analyst: **FD**
pH	7.3	0.10	0.10	H	pH Units	1	1/27/2010
TURBIDITY							
			EPA 180.1				
RunID: **TURB_100128B**	QC Batch: **R117538**				PrepDate:		Analyst: **MP**
Turbidity	75000	100	100		NTU	1000	1/28/2010

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SETTLEABLE MATTER							
			SM2540F				
RunID: **WETCHEM_100127A**	QC Batch: **61425**				PrepDate:	**1/27/2010**	Analyst: **CBB**
Settleable Matter	270	0.10	0.10		ml/L	1	1/27/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
				SM2540C			
RunID: **WETCHEM_100202B**	QC Batch: **61559**				PrepDate: **2/1/2010**		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	5600	17	50		mg/L	1	2/1/2010 08:22 PM
TOTAL NON-FILTERABLE RESIDUE							
				SM2540D			
RunID: **WETCHEM_100129G**	QC Batch: **61475**				PrepDate: **1/29/2010**		Analyst: **DDL**
Suspended Solids (Residue, Non-Filterable)	67000	330	330		mg/L	1	1/29/2010 10:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002D		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
OIL & GREASE							
			EPA 1664 _HEM				
RunID: **WETCHEM2_100204A**	QC Batch: **61595**				PrepDate:	**2/3/2010**	Analyst: **JSD**
Oil & Grease	1.6	0.69	4.9	J	mg/L	1	2/4/2010
TOTAL PETROLEUM HYDROCARBONS							
			EPA 1664_SGT/HEM				
RunID: **WETCHEM2_100205B**	QC Batch: **61653**				PrepDate:	**2/4/2010**	Analyst: **JSD**
Total Petroleum Hydrocarbons	15	0.60	2.4		mg/L	1	2/5/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002E		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C **EPA 625**

RunID: **MS 13_100201B** QC Batch: **61508** PrepDate: **2/1/2010** Analyst: **SMH**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	3.7	10		µg/L	1	2/2/2010 12:48 AM
1,2-Dichlorobenzene	ND	2.5	10		µg/L	1	2/2/2010 12:48 AM
1,2-Diphenylhydrazine	ND	4.4	10		µg/L	1	2/2/2010 12:48 AM
1,3-Dichlorobenzene	ND	2.6	10		µg/L	1	2/2/2010 12:48 AM
1,4-Dichlorobenzene	ND	2.6	10		µg/L	1	2/2/2010 12:48 AM
2,4,6-Trichlorophenol	ND	3.4	10		µg/L	1	2/2/2010 12:48 AM
2,4-Dichlorophenol	ND	3.0	10		µg/L	1	2/2/2010 12:48 AM
2,4-Dimethylphenol	ND	2.7	10		µg/L	1	2/2/2010 12:48 AM
2,4-Dinitrophenol	ND	5.6	50		µg/L	1	2/2/2010 12:48 AM
2,4-Dinitrotoluene	ND	3.7	10		µg/L	1	2/2/2010 12:48 AM
2,6-Dinitrotoluene	ND	3.8	10		µg/L	1	2/2/2010 12:48 AM
2-Chloronaphthalene	ND	3.8	10		µg/L	1	2/2/2010 12:48 AM
2-Chlorophenol	ND	2.3	10		µg/L	1	2/2/2010 12:48 AM
2-Nitrophenol	ND	3.1	10		µg/L	1	2/2/2010 12:48 AM
3,3´-Dichlorobenzidine	ND	3.6	20		µg/L	1	2/2/2010 12:48 AM
4,6-Dinitro-2-methylphenol	ND	4.2	50		µg/L	1	2/2/2010 12:48 AM
4-Bromophenyl-phenylether	ND	4.9	10		µg/L	1	2/2/2010 12:48 AM
4-Chloro-3-methylphenol	ND	3.2	50		µg/L	1	2/2/2010 12:48 AM
4-Chlorophenyl-phenylether	ND	4.8	10		µg/L	1	2/2/2010 12:48 AM
4-Nitrophenol	ND	3.0	50		µg/L	1	2/2/2010 12:48 AM
Acenaphthene	ND	3.3	10		µg/L	1	2/2/2010 12:48 AM
Acenaphthylene	ND	3.2	10		µg/L	1	2/2/2010 12:48 AM
Anthracene	ND	4.1	10		µg/L	1	2/2/2010 12:48 AM
Benzidine (M)	ND	5.9	50		µg/L	1	2/2/2010 12:48 AM
Benzo(a)anthracene	ND	3.7	10		µg/L	1	2/2/2010 12:48 AM
Benzo(a)pyrene	ND	3.6	10		µg/L	1	2/2/2010 12:48 AM
Benzo(b)fluoranthene	ND	4.2	10		µg/L	1	2/2/2010 12:48 AM
Benzo(g,h,i)perylene	ND	5.8	10		µg/L	1	2/2/2010 12:48 AM
Benzo(k)fluoranthene	ND	4.2	10		µg/L	1	2/2/2010 12:48 AM
Bis(2-chloroethoxy)methane	ND	3.0	10		µg/L	1	2/2/2010 12:48 AM
Bis(2-chloroethyl)ether	ND	2.6	10		µg/L	1	2/2/2010 12:48 AM
Bis(2-chloroisopropyl)ether	ND	2.5	10		µg/L	1	2/2/2010 12:48 AM
Bis(2-ethylhexyl)phthalate	ND	5.0	10		µg/L	1	2/2/2010 12:48 AM
Butylbenzylphthalate	ND	4.4	10		µg/L	1	2/2/2010 12:48 AM
Chrysene	ND	3.2	10		µg/L	1	2/2/2010 12:48 AM

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002E		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 3510C			**EPA 625**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
Di-n-butylphthalate	ND	4.8	10		µg/L	1	2/2/2010 12:48 AM
Di-n-octylphthalate	ND	5.0	10		µg/L	1	2/2/2010 12:48 AM
Dibenz(a,h)anthracene	ND	4.1	10		µg/L	1	2/2/2010 12:48 AM
Diethylphthalate	ND	4.0	10		µg/L	1	2/2/2010 12:48 AM
Dimethylphthalate	ND	3.5	10		µg/L	1	2/2/2010 12:48 AM
Fluoranthene	ND	4.1	10		µg/L	1	2/2/2010 12:48 AM
Fluorene	ND	3.6	10		µg/L	1	2/2/2010 12:48 AM
Hexachlorobenzene	ND	4.5	10		µg/L	1	2/2/2010 12:48 AM
Hexachlorobutadiene	ND	4.0	20		µg/L	1	2/2/2010 12:48 AM
Hexachlorocyclopentadiene	ND	4.8	10		µg/L	1	2/2/2010 12:48 AM
Hexachloroethane	ND	2.7	10		µg/L	1	2/2/2010 12:48 AM
Indeno(1,2,3-cd)pyrene	ND	4.9	10		µg/L	1	2/2/2010 12:48 AM
Isophorone	ND	3.0	10		µg/L	1	2/2/2010 12:48 AM
N-Nitrosodi-n-propylamine	ND	1.2	10		µg/L	1	2/2/2010 12:48 AM
N-Nitrosodimethylamine	ND	2.5	50		µg/L	1	2/2/2010 12:48 AM
N-Nitrosodiphenylamine	ND	3.8	10		µg/L	1	2/2/2010 12:48 AM
Naphthalene	ND	2.7	10		µg/L	1	2/2/2010 12:48 AM
Nitrobenzene	ND	2.8	10		µg/L	1	2/2/2010 12:48 AM
Pentachlorophenol	ND	4.5	50		µg/L	1	2/2/2010 12:48 AM
Phenanthrene	ND	4.4	10		µg/L	1	2/2/2010 12:48 AM
Phenol	ND	1.6	10		µg/L	1	2/2/2010 12:48 AM
Pyrene	ND	3.7	10		µg/L	1	2/2/2010 12:48 AM
Surr: 1,2-Dichlorobenzene-d4	69.7	0	42-98		%REC	1	2/2/2010 12:48 AM
Surr: 2,4,6-Tribromophenol	90.7	0	60-128		%REC	1	2/2/2010 12:48 AM
Surr: 2-Chlorophenol-d4	55.3	0	43-102		%REC	1	2/2/2010 12:48 AM
Surr: 2-Fluorobiphenyl	78.5	0	50-108		%REC	1	2/2/2010 12:48 AM
Surr: 2-Fluorophenol	33.6	0	22-69		%REC	1	2/2/2010 12:48 AM
Surr: 4-Terphenyl-d14	74.5	0	66-130		%REC	1	2/2/2010 12:48 AM
Surr: Nitrobenzene-d5	75.9	0	47-117		%REC	1	2/2/2010 12:48 AM
Surr: Phenol-d5	27.4	0	16-50		%REC	1	2/2/2010 12:48 AM
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE							
EPA 3510C			**EPA 8270C(M)**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
1,4-Dioxane	ND	1.9	2.0		µg/L	1	2/2/2010 12:48 AM

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002E		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE							
EPA 3510C			**EPA 8270C(M)**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
Surr: 1,2-Dichlorobenzene-d4	72.2	0	42-98		%REC	1	2/2/2010 12:48 AM
Surr: 2,4,6-Tribromophenol	91.6	0	60-128		%REC	1	2/2/2010 12:48 AM
Surr: 2-Chlorophenol-d4	58.0	0	43-102		%REC	1	2/2/2010 12:48 AM
Surr: 2-Fluorobiphenyl	83.9	0	50-108		%REC	1	2/2/2010 12:48 AM
Surr: 2-Fluorophenol	35.6	0	22-69		%REC	1	2/2/2010 12:48 AM
Surr: 4-Terphenyl-d14	75.4	0	66-130		%REC	1	2/2/2010 12:48 AM
Surr: Nitrobenzene-d5	95.1	0	47-117		%REC	1	2/2/2010 12:48 AM
Surr: Phenol-d5	28.3	0	16-50		%REC	1	2/2/2010 12:48 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002F		

ORGANOCHLORINE PESTICIDES AND PCBS BY GC/ECD

EPA 3510C **EPA 608**

RunID: **GC9_100128A** QC Batch: **61438** PrepDate: **1/28/2010** Analyst: **HL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	0.0050	0.050		µg/L	1	1/28/2010 07:48 PM
4,4´-DDE	ND	0.0050	0.050		µg/L	1	1/28/2010 07:48 PM
4,4´-DDT	ND	0.0050	0.050		µg/L	1	1/28/2010 07:48 PM
Aldrin	ND	0.0050	0.025		µg/L	1	1/28/2010 07:48 PM
alpha-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 07:48 PM
Aroclor 1016	ND	0.10	0.50		µg/L	1	1/28/2010 06:25 PM
Aroclor 1221	ND	0.10	1.0		µg/L	1	1/28/2010 06:25 PM
Aroclor 1232	ND	0.10	0.50		µg/L	1	1/28/2010 06:25 PM
Aroclor 1242	ND	0.10	0.50		µg/L	1	1/28/2010 06:25 PM
Aroclor 1248	ND	0.10	0.50		µg/L	1	1/28/2010 06:25 PM
Aroclor 1254	ND	0.10	0.50		µg/L	1	1/28/2010 06:25 PM
Aroclor 1260	ND	0.10	0.50		µg/L	1	1/28/2010 06:25 PM
beta-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 07:48 PM
Chlordane	ND	0.050	0.25		µg/L	1	1/28/2010 07:48 PM
delta-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 07:48 PM
Dieldrin	ND	0.0050	0.050		µg/L	1	1/28/2010 07:48 PM
Endosulfan I	ND	0.0050	0.025		µg/L	1	1/28/2010 07:48 PM
Endosulfan II	ND	0.0050	0.050		µg/L	1	1/28/2010 07:48 PM
Endosulfan sulfate	ND	0.0050	0.050		µg/L	1	1/28/2010 07:48 PM
Endrin	ND	0.0050	0.050		µg/L	1	1/28/2010 07:48 PM
Endrin aldehyde	ND	0.0050	0.050		µg/L	1	1/28/2010 07:48 PM
gamma-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 07:48 PM
Heptachlor	ND	0.0050	0.025		µg/L	1	1/28/2010 07:48 PM
Heptachlor epoxide	ND	0.0050	0.025		µg/L	1	1/28/2010 07:48 PM
Toxaphene	ND	0.50	2.5		µg/L	1	1/28/2010 07:48 PM
Surr: Decachlorobiphenyl	62.7	0	29-137		%REC	1	1/28/2010 06:25 PM
Surr: Decachlorobiphenyl	57.5	0	29-137		%REC	1	1/28/2010 07:48 PM
Surr: Tetrachloro-m-xylene	80.7	0	47-117		%REC	1	1/28/2010 07:48 PM
Surr: Tetrachloro-m-xylene	74.6	0	47-117		%REC	1	1/28/2010 06:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002G		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
DRO	0.26	0.083	0.083		mg/L	1	1/29/2010 05:45 PM
Surr: p-Terphenyl	105	0	35-131		%REC	1	1/29/2010 05:45 PM
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	0.13	0.083	0.083		mg/L	1	1/29/2010 05:45 PM
T/R Hydrocarbons: C23-C32	0.15	0.083	0.083		mg/L	1	1/29/2010 05:45 PM
T/R Hydrocarbons:>C32	0.16	0.083	0.083		mg/L	1	1/29/2010 05:45 PM
Surr: p-Terphenyl	105	0	35-131		%REC	1	1/29/2010 05:45 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002H		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM							
			EPA 7196A				
RunID: **WETCHEM3_100127A**	QC Batch: **R117369**				PrepDate:	**1/27/2010**	Analyst: **MFP**
Chromium, Hexavalent	ND	0.0086	0.010		mg/L	1	1/27/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002I		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3010A			**EPA 200.7**			
RunID: **ICP8_100201C**	QC Batch: **61452**				PrepDate:	**1/29/2010**	Analyst: **CL**
Boron	3.3	0.34	0.50		mg/L	1	2/1/2010 11:23 AM
ICPMS METALS							
	EPA 200.8			**EPA 200.8**			
RunID: **ICP7_100204D**	QC Batch: **61600**				PrepDate:	**2/4/2010**	Analyst: **SRB**
Antimony	ND	0.85	2.5		µg/L	5	2/4/2010 08:01 PM
Arsenic	69	0.22	5.0		µg/L	5	2/2/2010 09:13 PM
Beryllium	ND	7.8	100		µg/L	200	2/2/2010 07:32 PM
Cadmium	49	0.12	2.5		µg/L	5	2/2/2010 09:13 PM
Chromium	880	4.0	25		µg/L	50	2/2/2010 08:14 PM
Copper	570	16	50		µg/L	50	2/2/2010 08:14 PM
Lead	3.3	0.10	1.0		µg/L	1	2/2/2010 02:23 PM
Nickel	1600	2.6	20		µg/L	20	2/3/2010 12:49 PM
Selenium	23	1.6	2.5		µg/L	5	2/2/2010 09:13 PM
Silver	3.1	0.14	2.5		µg/L	5	2/2/2010 09:13 PM
Thallium	1.7	0.080	0.50		µg/L	1	2/2/2010 02:23 PM
Zinc	1600	29	200		µg/L	20	2/2/2010 08:31 PM
MERCURY BY COLD VAPOR TECHNIQUE							
				EPA 245.1			
RunID: **AA1_100201C**	QC Batch: **61453**				PrepDate:	**1/29/2010**	Analyst: **CL**
Mercury	1.9	0.40	1.0		µg/L	1	2/1/2010 11:53 AM
HARDNESS AS CALCIUM CARBONATE							
				SM2340C			
RunID: **WETCHEM_100130A**	QC Batch: **R117498**				PrepDate:		Analyst: **CBB**
Hardness (As CaCO3)	12000	820	2000		mg/L	1000	1/30/2010

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002J		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SULFIDE, TOTAL							
			SM4500-S= D				
RunID: **WETCHEM3_100202C**	QC Batch: **R117608**				PrepDate:		Analyst: **MFP**
Sulfide	2.9	1.5	3.0	J	mg/L	300	2/2/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002K		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CYANIDE, TOTAL							
			SM4500-CN E				
RunID: **WETCHEM3_100201E**	QC Batch: **61528**				PrepDate:	**1/29/2010**	Analyst: **MFP**
Cyanide	ND	0.0030	0.010		mg/L	1	2/1/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002L		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 624

RunID: **MS11_100128A** QC Batch: **A10VW023** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	1/28/2010 02:25 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 02:25 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	1/28/2010 02:25 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	1/28/2010 02:25 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 02:25 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	1/28/2010 02:25 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	1/28/2010 02:25 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	1/28/2010 02:25 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 02:25 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	1/28/2010 02:25 PM
2-Chloroethyl vinyl ether	ND	0.14	0.50		µg/L	1	1/28/2010 02:25 PM
Acrolein	ND	1.5	10		µg/L	1	1/28/2010 02:25 PM
Acrylonitrile	ND	1.4	10		µg/L	1	1/28/2010 02:25 PM
Benzene	0.81	0.17	0.50		µg/L	1	1/28/2010 02:25 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	1/28/2010 02:25 PM
Bromoform	ND	0.30	0.50		µg/L	1	1/28/2010 02:25 PM
Bromomethane	ND	0.32	0.50		µg/L	1	1/28/2010 02:25 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	1/28/2010 02:25 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 02:25 PM
Chloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 02:25 PM
Chloroform	ND	0.23	0.50		µg/L	1	1/28/2010 02:25 PM
Chloromethane	ND	0.32	0.50		µg/L	1	1/28/2010 02:25 PM
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	1/28/2010 02:25 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	1/28/2010 02:25 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	1/28/2010 02:25 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	1/28/2010 02:25 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 02:25 PM
Toluene	0.53	0.22	0.50		µg/L	1	1/28/2010 02:25 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	1/28/2010 02:25 PM
trans-1,3-Dichloropropene	ND	0.35	0.50		µg/L	1	1/28/2010 02:25 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	1/28/2010 02:25 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	1/28/2010 02:25 PM
Surr: 1,2-Dichloroethane-d4	86.2	0	70-130		%REC	1	1/28/2010 02:25 PM
Surr: 4-Bromofluorobenzene	105	0	70-130		%REC	1	1/28/2010 02:25 PM
Surr: Dibromofluoromethane	98.5	0	70-130		%REC	1	1/28/2010 02:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002L		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 624							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
Surr: Toluene-d8	114	0	70-130		%REC	1	1/28/2010 02:25 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
2-Butanone	ND	4.0	10		µg/L	1	1/28/2010 02:25 PM
Acetone	ND	5.0	10		µg/L	1	1/28/2010 02:25 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	1/28/2010 02:25 PM
o-Xylene	ND	0.27	0.50		µg/L	1	1/28/2010 02:25 PM
Surr: 1,2-Dichloroethane-d4	86.2	0	70-130		%REC	1	1/28/2010 02:25 PM
Surr: 4-Bromofluorobenzene	105	0	70-130		%REC	1	1/28/2010 02:25 PM
Surr: Dibromofluoromethane	98.5	0	70-130		%REC	1	1/28/2010 02:25 PM
Surr: Toluene-d8	114	0	70-130		%REC	1	1/28/2010 02:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002M		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B(M)				
RunID: **GC6_100127A**	QC Batch:	**I10VW0022**			PrepDate:		Analyst: **BD**
GRO	ND	0.050	0.050		mg/L	1	1/27/2010 03:55 PM
Surr: Bromofluorobenzene (FID)	88.3	0	71-130		%REC	1	1/27/2010 03:55 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC6_100127A**	QC Batch:	**I10VW0022**			PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.050	0.050		mg/L	1	1/27/2010 03:55 PM
T/R Hydrocarbons: C4-C12	ND	0.050	0.20		mg/L	1	1/27/2010 03:55 PM
Surr: Bromofluorobenzene (FID)	88.3	0	71-130		%REC	1	1/27/2010 03:55 PM
Surr: Bromofluorobenzene (FID)	88.3	0	71-130		%REC	1	1/27/2010 03:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-201-WD
Lab Order:	109828	**Collection Date:**	1/26/2010 11:30:00 AM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-002P		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A		**EPA 200.7**				
RunID: **ICP8_100202B**	QC Batch: **61486**				PrepDate:	**2/1/2010**	Analyst: **CL**
Boron	2.6	0.068	0.10		mg/L	1	2/2/2010 11:50 AM
DISSOLVED METALS BY ICPMS							
	EPA 200.8		**EPA 200.8**				
RunID: **ICP7_100205A**	QC Batch: **61599**				PrepDate:	**2/4/2010**	Analyst: **SRB**
Antimony	0.96	0.85	2.5	J	µg/L	5	2/5/2010 08:44 AM
Arsenic	9.4	0.044	1.0		µg/L	1	2/2/2010 01:45 PM
Beryllium	ND	3.9	50		µg/L	100	2/2/2010 05:09 PM
Cadmium	0.30	0.025	0.50	J	µg/L	1	2/2/2010 01:45 PM
Chromium	ND	0.079	0.50		µg/L	1	2/2/2010 01:45 PM
Copper	16	0.32	1.0		µg/L	1	2/2/2010 01:45 PM
Lead	ND	0.10	1.0		µg/L	1	2/3/2010 07:57 PM
Nickel	15	0.13	1.0		µg/L	1	2/2/2010 01:45 PM
Selenium	19	0.31	0.50		µg/L	1	2/2/2010 01:45 PM
Silver	0.034	0.027	0.50	J	µg/L	1	2/2/2010 01:45 PM
Thallium	ND	0.080	0.50		µg/L	1	2/2/2010 01:45 PM
Zinc	21	1.4	10		µg/L	1	2/2/2010 01:45 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-203-W
Lab Order: 109828
Collection Date: 1/26/2010 3:00:00 PM
Project: Caltrans TO-16, 207126016
Matrix: GROUNDWATER
Lab ID: 109828-003A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PERCHLORATE BY ION CHROMATOGRAPHY							
			EPA 314.0				
RunID: **IC4_100129A**	QC Batch: **R117507**				PrepDate:		Analyst: **JSD**
Perchlorate	ND	5.2	10		µg/L	5	1/29/2010 04:06 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100130A**	QC Batch: **R117491**				PrepDate:		Analyst: **JSD**
Chloride	700	13	50		mg/L	100	1/30/2010 05:57 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100127A**	QC Batch: **R117428**				PrepDate:		Analyst: **JSD**
Nitrogen, Nitrite	ND	0.47	1.0		mg/L	10	1/27/2010 04:20 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100127A**	QC Batch: **R117428**				PrepDate:		Analyst: **JSD**
Nitrogen, Nitrate (As N)	3.6	0.36	1.0		mg/L	10	1/27/2010 04:20 PM
ANIONS BY ION CHROMATOGRAPHY							
			EPA 300.0				
RunID: **IC3_100130A**	QC Batch: **R117491**				PrepDate:		Analyst: **JSD**
Sulfate	3000	44	200		mg/L	200	1/30/2010 06:43 PM
PH							
			SM4500-H+B				
RunID: **PH4_100127A**	QC Batch: **R117472**				PrepDate:		Analyst: **FD**
pH	7.2	0.10	0.10	H	pH Units	1	1/27/2010
TURBIDITY							
			EPA 180.1				
RunID: **TURB_100128B**	QC Batch: **R117538**				PrepDate:		Analyst: **MP**
Turbidity	38000	50	50		NTU	500	1/28/2010

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SETTLEABLE MATTER							
			SM2540F				
RunID: **WETCHEM_100127A**	QC Batch: **61425**				PrepDate:	**1/27/2010**	Analyst: **CBB**
Settleable Matter	520	0.11	0.11		ml/L	1	1/27/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
				SM2540C			
RunID: **WETCHEM_100202B**	QC Batch: **61559**				PrepDate: **2/1/2010**		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	6400	22	67		mg/L	1	2/1/2010 08:22 PM
TOTAL NON-FILTERABLE RESIDUE							
				SM2540D			
RunID: **WETCHEM_100129H**	QC Batch: **61476**				PrepDate: **1/29/2010**		Analyst: **DDL**
Suspended Solids (Residue, Non-Filterable)	50000	200	200		mg/L	1	1/29/2010 10:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003D		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
OIL & GREASE							
			EPA 1664 _HEM				
RunID: **WETCHEM2_100204A**	QC Batch: **61595**				PrepDate:	**2/3/2010**	Analyst: **JSD**
Oil & Grease	2.8	0.65	4.6	J	mg/L	1	2/4/2010
TOTAL PETROLEUM HYDROCARBONS							
			EPA 1664_SGT/HEM				
RunID: **WETCHEM2_100205B**	QC Batch: **61653**				PrepDate:	**2/4/2010**	Analyst: **JSD**
Total Petroleum Hydrocarbons	15	0.58	2.4		mg/L	1	2/5/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003E		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C **EPA 625**

RunID: **MS 13_100201B** QC Batch: **61508** PrepDate: **2/1/2010** Analyst: **SMH**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	3.7	10		µg/L	1	2/2/2010 01:15 AM
1,2-Dichlorobenzene	ND	2.5	10		µg/L	1	2/2/2010 01:15 AM
1,2-Diphenylhydrazine	ND	4.4	10		µg/L	1	2/2/2010 01:15 AM
1,3-Dichlorobenzene	ND	2.6	10		µg/L	1	2/2/2010 01:15 AM
1,4-Dichlorobenzene	ND	2.6	10		µg/L	1	2/2/2010 01:15 AM
2,4,6-Trichlorophenol	ND	3.4	10		µg/L	1	2/2/2010 01:15 AM
2,4-Dichlorophenol	ND	3.0	10		µg/L	1	2/2/2010 01:15 AM
2,4-Dimethylphenol	ND	2.7	10		µg/L	1	2/2/2010 01:15 AM
2,4-Dinitrophenol	ND	5.6	50		µg/L	1	2/2/2010 01:15 AM
2,4-Dinitrotoluene	ND	3.7	10		µg/L	1	2/2/2010 01:15 AM
2,6-Dinitrotoluene	ND	3.8	10		µg/L	1	2/2/2010 01:15 AM
2-Chloronaphthalene	ND	3.8	10		µg/L	1	2/2/2010 01:15 AM
2-Chlorophenol	ND	2.3	10		µg/L	1	2/2/2010 01:15 AM
2-Nitrophenol	ND	3.1	10		µg/L	1	2/2/2010 01:15 AM
3,3´-Dichlorobenzidine	ND	3.6	20		µg/L	1	2/2/2010 01:15 AM
4,6-Dinitro-2-methylphenol	ND	4.2	50		µg/L	1	2/2/2010 01:15 AM
4-Bromophenyl-phenylether	ND	4.9	10		µg/L	1	2/2/2010 01:15 AM
4-Chloro-3-methylphenol	ND	3.2	50		µg/L	1	2/2/2010 01:15 AM
4-Chlorophenyl-phenylether	ND	4.8	10		µg/L	1	2/2/2010 01:15 AM
4-Nitrophenol	ND	3.0	50		µg/L	1	2/2/2010 01:15 AM
Acenaphthene	ND	3.3	10		µg/L	1	2/2/2010 01:15 AM
Acenaphthylene	ND	3.2	10		µg/L	1	2/2/2010 01:15 AM
Anthracene	ND	4.1	10		µg/L	1	2/2/2010 01:15 AM
Benzidine (M)	ND	5.9	50		µg/L	1	2/2/2010 01:15 AM
Benzo(a)anthracene	ND	3.7	10		µg/L	1	2/2/2010 01:15 AM
Benzo(a)pyrene	ND	3.6	10		µg/L	1	2/2/2010 01:15 AM
Benzo(b)fluoranthene	ND	4.2	10		µg/L	1	2/2/2010 01:15 AM
Benzo(g,h,i)perylene	ND	5.8	10		µg/L	1	2/2/2010 01:15 AM
Benzo(k)fluoranthene	ND	4.2	10		µg/L	1	2/2/2010 01:15 AM
Bis(2-chloroethoxy)methane	ND	3.0	10		µg/L	1	2/2/2010 01:15 AM
Bis(2-chloroethyl)ether	ND	2.6	10		µg/L	1	2/2/2010 01:15 AM
Bis(2-chloroisopropyl)ether	ND	2.5	10		µg/L	1	2/2/2010 01:15 AM
Bis(2-ethylhexyl)phthalate	ND	5.0	10		µg/L	1	2/2/2010 01:15 AM
Butylbenzylphthalate	ND	4.4	10		µg/L	1	2/2/2010 01:15 AM
Chrysene	ND	3.2	10		µg/L	1	2/2/2010 01:15 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003E		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 3510C			**EPA 625**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
Di-n-butylphthalate	ND	4.8	10		µg/L	1	2/2/2010 01:15 AM
Di-n-octylphthalate	ND	5.0	10		µg/L	1	2/2/2010 01:15 AM
Dibenz(a,h)anthracene	ND	4.1	10		µg/L	1	2/2/2010 01:15 AM
Diethylphthalate	ND	4.0	10		µg/L	1	2/2/2010 01:15 AM
Dimethylphthalate	ND	3.5	10		µg/L	1	2/2/2010 01:15 AM
Fluoranthene	ND	4.1	10		µg/L	1	2/2/2010 01:15 AM
Fluorene	ND	3.6	10		µg/L	1	2/2/2010 01:15 AM
Hexachlorobenzene	ND	4.5	10		µg/L	1	2/2/2010 01:15 AM
Hexachlorobutadiene	ND	4.0	20		µg/L	1	2/2/2010 01:15 AM
Hexachlorocyclopentadiene	ND	4.8	10		µg/L	1	2/2/2010 01:15 AM
Hexachloroethane	ND	2.7	10		µg/L	1	2/2/2010 01:15 AM
Indeno(1,2,3-cd)pyrene	ND	4.9	10		µg/L	1	2/2/2010 01:15 AM
Isophorone	ND	3.0	10		µg/L	1	2/2/2010 01:15 AM
N-Nitrosodi-n-propylamine	ND	1.2	10		µg/L	1	2/2/2010 01:15 AM
N-Nitrosodimethylamine	ND	2.5	50		µg/L	1	2/2/2010 01:15 AM
N-Nitrosodiphenylamine	ND	3.8	10		µg/L	1	2/2/2010 01:15 AM
Naphthalene	ND	2.7	10		µg/L	1	2/2/2010 01:15 AM
Nitrobenzene	ND	2.8	10		µg/L	1	2/2/2010 01:15 AM
Pentachlorophenol	ND	4.5	50		µg/L	1	2/2/2010 01:15 AM
Phenanthrene	ND	4.4	10		µg/L	1	2/2/2010 01:15 AM
Phenol	ND	1.6	10		µg/L	1	2/2/2010 01:15 AM
Pyrene	ND	3.7	10		µg/L	1	2/2/2010 01:15 AM
Surr: 1,2-Dichlorobenzene-d4	70.3	0	42-98		%REC	1	2/2/2010 01:15 AM
Surr: 2,4,6-Tribromophenol	93.0	0	60-128		%REC	1	2/2/2010 01:15 AM
Surr: 2-Chlorophenol-d4	72.3	0	43-102		%REC	1	2/2/2010 01:15 AM
Surr: 2-Fluorobiphenyl	79.8	0	50-108		%REC	1	2/2/2010 01:15 AM
Surr: 2-Fluorophenol	46.5	0	22-69		%REC	1	2/2/2010 01:15 AM
Surr: 4-Terphenyl-d14	102	0	66-130		%REC	1	2/2/2010 01:15 AM
Surr: Nitrobenzene-d5	76.7	0	47-117		%REC	1	2/2/2010 01:15 AM
Surr: Phenol-d5	34.9	0	16-50		%REC	1	2/2/2010 01:15 AM
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE							
EPA 3510C			**EPA 8270C(M)**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
1,4-Dioxane	ND	1.9	2.0		µg/L	1	2/2/2010 01:15 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003E		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE							
EPA 3510C			**EPA 8270C(M)**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
Surr: 1,2-Dichlorobenzene-d4	72.7	0	42-98		%REC	1	2/2/2010 01:15 AM
Surr: 2,4,6-Tribromophenol	94.0	0	60-128		%REC	1	2/2/2010 01:15 AM
Surr: 2-Chlorophenol-d4	75.8	0	43-102		%REC	1	2/2/2010 01:15 AM
Surr: 2-Fluorobiphenyl	85.2	0	50-108		%REC	1	2/2/2010 01:15 AM
Surr: 2-Fluorophenol	49.2	0	22-69		%REC	1	2/2/2010 01:15 AM
Surr: 4-Terphenyl-d14	103	0	66-130		%REC	1	2/2/2010 01:15 AM
Surr: Nitrobenzene-d5	96.1	0	47-117		%REC	1	2/2/2010 01:15 AM
Surr: Phenol-d5	36.1	0	16-50		%REC	1	2/2/2010 01:15 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003F		

ORGANOCHLORINE PESTICIDES AND PCBS BY GC/ECD

EPA 3510C **EPA 608**

RunID: **GC9_100128A** QC Batch: **61438** PrepDate: **1/28/2010** Analyst: **HL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	0.0050	0.050		µg/L	1	1/28/2010 08:03 PM
4,4´-DDE	ND	0.0050	0.050		µg/L	1	1/28/2010 08:03 PM
4,4´-DDT	ND	0.0050	0.050		µg/L	1	1/28/2010 08:03 PM
Aldrin	ND	0.0050	0.025		µg/L	1	1/28/2010 08:03 PM
alpha-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 08:03 PM
Aroclor 1016	ND	0.10	0.50		µg/L	1	1/28/2010 06:55 PM
Aroclor 1221	ND	0.10	1.0		µg/L	1	1/28/2010 06:55 PM
Aroclor 1232	ND	0.10	0.50		µg/L	1	1/28/2010 06:55 PM
Aroclor 1242	ND	0.10	0.50		µg/L	1	1/28/2010 06:55 PM
Aroclor 1248	ND	0.10	0.50		µg/L	1	1/28/2010 06:55 PM
Aroclor 1254	ND	0.10	0.50		µg/L	1	1/28/2010 06:55 PM
Aroclor 1260	ND	0.10	0.50		µg/L	1	1/28/2010 06:55 PM
beta-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 08:03 PM
Chlordane	ND	0.050	0.25		µg/L	1	1/28/2010 08:03 PM
delta-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 08:03 PM
Dieldrin	ND	0.0050	0.050		µg/L	1	1/28/2010 08:03 PM
Endosulfan I	ND	0.0050	0.025		µg/L	1	1/28/2010 08:03 PM
Endosulfan II	ND	0.0050	0.050		µg/L	1	1/28/2010 08:03 PM
Endosulfan sulfate	ND	0.0050	0.050		µg/L	1	1/28/2010 08:03 PM
Endrin	ND	0.0050	0.050		µg/L	1	1/28/2010 08:03 PM
Endrin aldehyde	ND	0.0050	0.050		µg/L	1	1/28/2010 08:03 PM
gamma-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 08:03 PM
Heptachlor	ND	0.0050	0.025		µg/L	1	1/28/2010 08:03 PM
Heptachlor epoxide	ND	0.0050	0.025		µg/L	1	1/28/2010 08:03 PM
Toxaphene	ND	0.50	2.5		µg/L	1	1/28/2010 08:03 PM
Surr: Decachlorobiphenyl	70.2	0	29-137		%REC	1	1/28/2010 06:55 PM
Surr: Decachlorobiphenyl	59.4	0	29-137		%REC	1	1/28/2010 08:03 PM
Surr: Tetrachloro-m-xylene	86.0	0	47-117		%REC	1	1/28/2010 08:03 PM
Surr: Tetrachloro-m-xylene	81.7	0	47-117		%REC	1	1/28/2010 06:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003G		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
DRO	0.076	0.050	0.050		mg/L	1	1/29/2010 05:18 PM
Surr: p-Terphenyl	112	0	35-131		%REC	1	1/29/2010 05:18 PM
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	0.050	0.050		mg/L	1	1/29/2010 05:18 PM
T/R Hydrocarbons: C23-C32	0.070	0.050	0.050		mg/L	1	1/29/2010 05:18 PM
T/R Hydrocarbons:>C32	ND	0.050	0.050		mg/L	1	1/29/2010 05:18 PM
Surr: p-Terphenyl	112	0	35-131		%REC	1	1/29/2010 05:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003H		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM							
			EPA 7196A				
RunID: **WETCHEM3_100127A**	QC Batch: **R117369**				PrepDate:	**1/27/2010**	Analyst: **MFP**
Chromium, Hexavalent	ND	0.0086	0.010		mg/L	1	1/27/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-203-W
Lab Order: 109828
Collection Date: 1/26/2010 3:00:00 PM
Project: Caltrans TO-16, 207126016
Matrix: GROUNDWATER
Lab ID: 109828-003I

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3010A		**EPA 200.7**				
RunID: **ICP8_100201C**	QC Batch: **61452**				PrepDate:	**1/29/2010**	Analyst: **CL**
Boron	3.6	0.34	0.50		mg/L	1	2/1/2010 11:27 AM
ICPMS METALS							
	EPA 200.8		**EPA 200.8**				
RunID: **ICP7_100204D**	QC Batch: **61600**				PrepDate:	**2/4/2010**	Analyst: **SRB**
Antimony	ND	0.85	2.5		µg/L	5	2/4/2010 08:05 PM
Arsenic	74	0.044	1.0		µg/L	1	2/2/2010 02:27 PM
Beryllium	ND	7.8	100		µg/L	200	2/2/2010 07:36 PM
Cadmium	46	0.12	2.5		µg/L	5	2/2/2010 09:17 PM
Chromium	470	1.6	10		µg/L	20	2/2/2010 08:43 PM
Copper	350	6.4	20		µg/L	20	2/2/2010 08:43 PM
Lead	250	2.1	20		µg/L	20	2/2/2010 08:43 PM
Nickel	1200	6.4	50		µg/L	50	2/2/2010 08:18 PM
Selenium	8.7	0.31	0.50		µg/L	1	2/2/2010 02:27 PM
Silver	2.0	0.14	2.5	J	µg/L	5	2/2/2010 09:17 PM
Thallium	1.7	0.080	0.50		µg/L	1	2/2/2010 02:27 PM
Zinc	1200	7.1	50		µg/L	5	2/2/2010 09:17 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 245.1				
RunID: **AA1_100201C**	QC Batch: **61453**				PrepDate:	**1/29/2010**	Analyst: **CL**
Mercury	1.1	0.40	1.0		µg/L	1	2/1/2010 11:32 AM
HARDNESS AS CALCIUM CARBONATE							
			SM2340C				
RunID: **WETCHEM_100130A**	QC Batch: **R117498**				PrepDate:		Analyst: **CBB**
Hardness (As CaCO3)	11000	820	2000		mg/L	1000	1/30/2010

Qualifiers:

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ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003J		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SULFIDE, TOTAL							
			SM4500-S= D				
RunID: **WETCHEM3_100202C**	QC Batch: **R117608**				PrepDate:		Analyst: **MFP**
Sulfide	5.7	1.9	3.8		mg/L	375	2/2/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003K		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CYANIDE, TOTAL							
			SM4500-CN E				
RunID: **WETCHEM3_100201E**	QC Batch: **61528**				PrepDate:	**1/29/2010**	Analyst: **MFP**
Cyanide	0.015	0.0030	0.010		mg/L	1	2/1/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003L		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 624

RunID: **MS11_100128A** QC Batch: **A10VW023** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	1/28/2010 03:28 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 03:28 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	1/28/2010 03:28 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	1/28/2010 03:28 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 03:28 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	1/28/2010 03:28 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	1/28/2010 03:28 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	1/28/2010 03:28 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 03:28 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	1/28/2010 03:28 PM
2-Chloroethyl vinyl ether	ND	0.14	0.50		µg/L	1	1/28/2010 03:28 PM
Acrolein	ND	1.5	10		µg/L	1	1/28/2010 03:28 PM
Acrylonitrile	ND	1.4	10		µg/L	1	1/28/2010 03:28 PM
Benzene	0.30	0.17	0.50	J	µg/L	1	1/28/2010 03:28 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	1/28/2010 03:28 PM
Bromoform	ND	0.30	0.50		µg/L	1	1/28/2010 03:28 PM
Bromomethane	ND	0.32	0.50		µg/L	1	1/28/2010 03:28 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	1/28/2010 03:28 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 03:28 PM
Chloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 03:28 PM
Chloroform	ND	0.23	0.50		µg/L	1	1/28/2010 03:28 PM
Chloromethane	ND	0.32	0.50		µg/L	1	1/28/2010 03:28 PM
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	1/28/2010 03:28 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	1/28/2010 03:28 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	1/28/2010 03:28 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	1/28/2010 03:28 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 03:28 PM
Toluene	0.25	0.22	0.50	J	µg/L	1	1/28/2010 03:28 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	1/28/2010 03:28 PM
trans-1,3-Dichloropropene	ND	0.35	0.50		µg/L	1	1/28/2010 03:28 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	1/28/2010 03:28 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	1/28/2010 03:28 PM
Surr: 1,2-Dichloroethane-d4	86.8	0	70-130		%REC	1	1/28/2010 03:28 PM
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	1	1/28/2010 03:28 PM
Surr: Dibromofluoromethane	99.2	0	70-130		%REC	1	1/28/2010 03:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003L		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 624							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
Surr: Toluene-d8	113	0	70-130		%REC	1	1/28/2010 03:28 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
2-Butanone	ND	4.0	10		µg/L	1	1/28/2010 03:28 PM
Acetone	ND	5.0	10		µg/L	1	1/28/2010 03:28 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	1/28/2010 03:28 PM
o-Xylene	ND	0.27	0.50		µg/L	1	1/28/2010 03:28 PM
Surr: 1,2-Dichloroethane-d4	86.8	0	70-130		%REC	1	1/28/2010 03:28 PM
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	1	1/28/2010 03:28 PM
Surr: Dibromofluoromethane	99.2	0	70-130		%REC	1	1/28/2010 03:28 PM
Surr: Toluene-d8	113	0	70-130		%REC	1	1/28/2010 03:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-203-W
Lab Order:	109828	**Collection Date:**	1/26/2010 3:00:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	GROUNDWATER
Lab ID:	109828-003M		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B(M)				
RunID: **GC6_100127A**	QC Batch:	**I10VW0022**			PrepDate:		Analyst: **BD**
GRO	ND	0.050	0.050		mg/L	1	1/27/2010 04:15 PM
Surr: Bromofluorobenzene (FID)	89.9	0	71-130		%REC	1	1/27/2010 04:15 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC6_100127A**	QC Batch:	**I10VW0022**			PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.050	0.050		mg/L	1	1/27/2010 04:15 PM
T/R Hydrocarbons: C4-C12	ND	0.050	0.20		mg/L	1	1/27/2010 04:15 PM
Surr: Bromofluorobenzene (FID)	89.9	0	71-130		%REC	1	1/27/2010 04:15 PM
Surr: Bromofluorobenzene (FID)	89.9	0	71-130		%REC	1	1/27/2010 04:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Lab Order: 109828
Project: Caltrans TO-16, 207126016
Lab ID: 109828-003P

Client Sample ID: 1087-203-W
Collection Date: 1/26/2010 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 200.7**			
RunID: **ICP8_100202B**	QC Batch: **61486**				PrepDate:	**2/1/2010**	Analyst: **CL**
Boron	2.2	0.068	0.10		mg/L	1	2/2/2010 12:00 PM
DISSOLVED METALS BY ICPMS							
	EPA 200.8			**EPA 200.8**			
RunID: **ICP7_100205A**	QC Batch: **61599**				PrepDate:	**2/4/2010**	Analyst: **SRB**
Antimony	ND	0.85	2.5		µg/L	5	2/5/2010 08:50 AM
Arsenic	3.7	0.044	1.0		µg/L	1	2/2/2010 01:49 PM
Beryllium	ND	7.8	100		µg/L	200	2/2/2010 05:35 PM
Cadmium	0.26	0.025	0.50	J	µg/L	1	2/2/2010 01:49 PM
Chromium	0.098	0.079	0.50	J	µg/L	1	2/2/2010 01:49 PM
Copper	17	0.32	1.0		µg/L	1	2/2/2010 01:49 PM
Lead	0.11	0.10	1.0	J	µg/L	1	2/3/2010 08:01 PM
Nickel	21	0.13	1.0		µg/L	1	2/2/2010 01:49 PM
Selenium	20	0.31	0.50		µg/L	1	2/2/2010 01:49 PM
Silver	ND	0.027	0.50		µg/L	1	2/2/2010 01:49 PM
Thallium	ND	0.080	0.50		µg/L	1	2/2/2010 01:49 PM
Zinc	14	1.4	10		µg/L	1	2/2/2010 01:49 PM

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-ERB-W
Lab Order: 109828
Collection Date: 1/26/2010 4:30:00 PM
Project: Caltrans TO-16, 207126016
Matrix: DRINKING WATER
Lab ID: 109828-004A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PERCHLORATE BY ION CHROMATOGRAPHY							
EPA 314.0							
RunID: **IC4_100129A** QC Batch: **R117507**					PrepDate:		Analyst: **JSD**
Perchlorate	ND	1.0	2.0		µg/L	1	1/29/2010 02:09 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **IC3_100201A** QC Batch: **R117514**					PrepDate:		Analyst: **JSD**
Chloride	ND	0.13	0.50		mg/L	1	2/1/2010 11:27 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **IC3_100127A** QC Batch: **R117428**					PrepDate:		Analyst: **JSD**
Nitrogen, Nitrite	ND	0.047	0.10		mg/L	1	1/27/2010 04:32 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **IC3_100127A** QC Batch: **R117428**					PrepDate:		Analyst: **JSD**
Nitrogen, Nitrate (As N)	ND	0.036	0.10		mg/L	1	1/27/2010 04:32 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **IC3_100127A** QC Batch: **R117428**					PrepDate:		Analyst: **JSD**
Sulfate	ND	0.22	1.0		mg/L	1	1/27/2010 04:32 PM
PH							
SM4500-H+B							
RunID: **PH4_100127A** QC Batch: **R117472**					PrepDate:		Analyst: **FD**
pH	5.8	0.10	0.10	H	pH Units	1	1/27/2010
TURBIDITY							
EPA 180.1							
RunID: **TURB_100128B** QC Batch: **R117538**					PrepDate:		Analyst: **MP**
Turbidity	ND	0.10	0.10		NTU	1	1/28/2010

Qualifiers:

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Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SETTLEABLE MATTER							
			SM2540F				
RunID: **WETCHEM_100127A**	QC Batch: **61425**				PrepDate:	**1/27/2010**	Analyst: **CBB**
Settleable Matter	ND	0.10	0.10		ml/L	1	1/27/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
				SM2540C			
RunID: **WETCHEM_100202B** QC Batch: **61559**					PrepDate: **2/1/2010**	Analyst: **CBB**	
Total Dissolved Solids (Residue, Filterable)	8.0	3.4	10	J	mg/L	1	2/1/2010 08:22 PM
TOTAL NON-FILTERABLE RESIDUE							
				SM2540D			
RunID: **WETCHEM_100129H** QC Batch: **61476**					PrepDate: **1/29/2010**	Analyst: **DDL**	
Suspended Solids (Residue, Non-Filterable)	ND	10	10		mg/L	1	1/29/2010 10:00 AM

Qualifiers:

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Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004D		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
OIL & GREASE							
			EPA 1664 _HEM				
RunID: **WETCHEM2_100204A**	QC Batch: **61595**				PrepDate:	**2/3/2010**	Analyst: **JSD**
Oil & Grease	ND	0.67	4.8		mg/L	1	2/4/2010
TOTAL PETROLEUM HYDROCARBONS							
			EPA 1664_SGT/HEM				
RunID: **WETCHEM2_100205B**	QC Batch: **61653**				PrepDate:	**2/4/2010**	Analyst: **JSD**
Total Petroleum Hydrocarbons	ND	0.60	2.4		mg/L	1	2/5/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004E		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C **EPA 625**

RunID: **MS 13_100201B** QC Batch: **61508** PrepDate: **2/1/2010** Analyst: **SMH**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	3.7	10		µg/L	1	2/2/2010 01:42 AM
1,2-Dichlorobenzene	ND	2.5	10		µg/L	1	2/2/2010 01:42 AM
1,2-Diphenylhydrazine	ND	4.4	10		µg/L	1	2/2/2010 01:42 AM
1,3-Dichlorobenzene	ND	2.6	10		µg/L	1	2/2/2010 01:42 AM
1,4-Dichlorobenzene	ND	2.6	10		µg/L	1	2/2/2010 01:42 AM
2,4,6-Trichlorophenol	ND	3.4	10		µg/L	1	2/2/2010 01:42 AM
2,4-Dichlorophenol	ND	3.0	10		µg/L	1	2/2/2010 01:42 AM
2,4-Dimethylphenol	ND	2.7	10		µg/L	1	2/2/2010 01:42 AM
2,4-Dinitrophenol	ND	5.6	50		µg/L	1	2/2/2010 01:42 AM
2,4-Dinitrotoluene	ND	3.7	10		µg/L	1	2/2/2010 01:42 AM
2,6-Dinitrotoluene	ND	3.8	10		µg/L	1	2/2/2010 01:42 AM
2-Chloronaphthalene	ND	3.8	10		µg/L	1	2/2/2010 01:42 AM
2-Chlorophenol	ND	2.3	10		µg/L	1	2/2/2010 01:42 AM
2-Nitrophenol	ND	3.1	10		µg/L	1	2/2/2010 01:42 AM
3,3´-Dichlorobenzidine	ND	3.6	20		µg/L	1	2/2/2010 01:42 AM
4,6-Dinitro-2-methylphenol	ND	4.2	50		µg/L	1	2/2/2010 01:42 AM
4-Bromophenyl-phenylether	ND	4.9	10		µg/L	1	2/2/2010 01:42 AM
4-Chloro-3-methylphenol	ND	3.2	50		µg/L	1	2/2/2010 01:42 AM
4-Chlorophenyl-phenylether	ND	4.8	10		µg/L	1	2/2/2010 01:42 AM
4-Nitrophenol	ND	3.0	50		µg/L	1	2/2/2010 01:42 AM
Acenaphthene	ND	3.3	10		µg/L	1	2/2/2010 01:42 AM
Acenaphthylene	ND	3.2	10		µg/L	1	2/2/2010 01:42 AM
Anthracene	ND	4.1	10		µg/L	1	2/2/2010 01:42 AM
Benzidine (M)	ND	5.9	50		µg/L	1	2/2/2010 01:42 AM
Benzo(a)anthracene	ND	3.7	10		µg/L	1	2/2/2010 01:42 AM
Benzo(a)pyrene	ND	3.6	10		µg/L	1	2/2/2010 01:42 AM
Benzo(b)fluoranthene	ND	4.2	10		µg/L	1	2/2/2010 01:42 AM
Benzo(g,h,i)perylene	ND	5.8	10		µg/L	1	2/2/2010 01:42 AM
Benzo(k)fluoranthene	ND	4.2	10		µg/L	1	2/2/2010 01:42 AM
Bis(2-chloroethoxy)methane	ND	3.0	10		µg/L	1	2/2/2010 01:42 AM
Bis(2-chloroethyl)ether	ND	2.6	10		µg/L	1	2/2/2010 01:42 AM
Bis(2-chloroisopropyl)ether	ND	2.5	10		µg/L	1	2/2/2010 01:42 AM
Bis(2-ethylhexyl)phthalate	ND	5.0	10		µg/L	1	2/2/2010 01:42 AM
Butylbenzylphthalate	ND	4.4	10		µg/L	1	2/2/2010 01:42 AM
Chrysene	ND	3.2	10		µg/L	1	2/2/2010 01:42 AM

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Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004E		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 3510C			**EPA 625**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
Di-n-butylphthalate	ND	4.8	10		µg/L	1	2/2/2010 01:42 AM
Di-n-octylphthalate	ND	5.0	10		µg/L	1	2/2/2010 01:42 AM
Dibenz(a,h)anthracene	ND	4.1	10		µg/L	1	2/2/2010 01:42 AM
Diethylphthalate	ND	4.0	10		µg/L	1	2/2/2010 01:42 AM
Dimethylphthalate	ND	3.5	10		µg/L	1	2/2/2010 01:42 AM
Fluoranthene	ND	4.1	10		µg/L	1	2/2/2010 01:42 AM
Fluorene	ND	3.6	10		µg/L	1	2/2/2010 01:42 AM
Hexachlorobenzene	ND	4.5	10		µg/L	1	2/2/2010 01:42 AM
Hexachlorobutadiene	ND	4.0	20		µg/L	1	2/2/2010 01:42 AM
Hexachlorocyclopentadiene	ND	4.8	10		µg/L	1	2/2/2010 01:42 AM
Hexachloroethane	ND	2.7	10		µg/L	1	2/2/2010 01:42 AM
Indeno(1,2,3-cd)pyrene	ND	4.9	10		µg/L	1	2/2/2010 01:42 AM
Isophorone	ND	3.0	10		µg/L	1	2/2/2010 01:42 AM
N-Nitrosodi-n-propylamine	ND	1.2	10		µg/L	1	2/2/2010 01:42 AM
N-Nitrosodimethylamine	ND	2.5	50		µg/L	1	2/2/2010 01:42 AM
N-Nitrosodiphenylamine	ND	3.8	10		µg/L	1	2/2/2010 01:42 AM
Naphthalene	ND	2.7	10		µg/L	1	2/2/2010 01:42 AM
Nitrobenzene	ND	2.8	10		µg/L	1	2/2/2010 01:42 AM
Pentachlorophenol	ND	4.5	50		µg/L	1	2/2/2010 01:42 AM
Phenanthrene	ND	4.4	10		µg/L	1	2/2/2010 01:42 AM
Phenol	ND	1.6	10		µg/L	1	2/2/2010 01:42 AM
Pyrene	ND	3.7	10		µg/L	1	2/2/2010 01:42 AM
Surr: 1,2-Dichlorobenzene-d4	59.0	0	42-98		%REC	1	2/2/2010 01:42 AM
Surr: 2,4,6-Tribromophenol	59.0	0	60-128	S	%REC	1	2/2/2010 01:42 AM
Surr: 2-Chlorophenol-d4	39.6	0	43-102	S	%REC	1	2/2/2010 01:42 AM
Surr: 2-Fluorobiphenyl	65.8	0	50-108		%REC	1	2/2/2010 01:42 AM
Surr: 2-Fluorophenol	25.0	0	22-69		%REC	1	2/2/2010 01:42 AM
Surr: 4-Terphenyl-d14	52.0	0	66-130	S	%REC	1	2/2/2010 01:42 AM
Surr: Nitrobenzene-d5	63.9	0	47-117		%REC	1	2/2/2010 01:42 AM
Surr: Phenol-d5	19.9	0	16-50		%REC	1	2/2/2010 01:42 AM
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE							
EPA 3510C			**EPA 8270C(M)**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
1,4-Dioxane	ND	1.9	2.0		µg/L	1	2/2/2010 01:42 AM

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CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004E		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE							
EPA 3510C			**EPA 8270C(M)**				
RunID: **MS 13_100201B**	QC Batch: **61508**				PrepDate:	**2/1/2010**	Analyst: **SMH**
Surr: 1,2-Dichlorobenzene-d4	61.0	0	42-98		%REC	1	2/2/2010 01:42 AM
Surr: 2,4,6-Tribromophenol	59.6	0	60-128	S	%REC	1	2/2/2010 01:42 AM
Surr: 2-Chlorophenol-d4	41.6	0	43-102	S	%REC	1	2/2/2010 01:42 AM
Surr: 2-Fluorobiphenyl	70.3	0	50-108		%REC	1	2/2/2010 01:42 AM
Surr: 2-Fluorophenol	26.5	0	22-69		%REC	1	2/2/2010 01:42 AM
Surr: 4-Terphenyl-d14	52.7	0	66-130	S	%REC	1	2/2/2010 01:42 AM
Surr: Nitrobenzene-d5	80.0	0	47-117		%REC	1	2/2/2010 01:42 AM
Surr: Phenol-d5	20.6	0	16-50		%REC	1	2/2/2010 01:42 AM

Qualifiers:				
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Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004F		

ORGANOCHLORINE PESTICIDES AND PCBS BY GC/ECD

EPA 3510C **EPA 608**

RunID: **GC9_100128A** QC Batch: **61438** PrepDate: **1/28/2010** Analyst: **HL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	0.0050	0.050		µg/L	1	1/28/2010 08:17 PM
4,4´-DDE	ND	0.0050	0.050		µg/L	1	1/28/2010 08:17 PM
4,4´-DDT	ND	0.0050	0.050		µg/L	1	1/28/2010 08:17 PM
Aldrin	ND	0.0050	0.025		µg/L	1	1/28/2010 08:17 PM
alpha-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 08:17 PM
Aroclor 1016	ND	0.10	0.50		µg/L	1	1/28/2010 07:25 PM
Aroclor 1221	ND	0.10	1.0		µg/L	1	1/28/2010 07:25 PM
Aroclor 1232	ND	0.10	0.50		µg/L	1	1/28/2010 07:25 PM
Aroclor 1242	ND	0.10	0.50		µg/L	1	1/28/2010 07:25 PM
Aroclor 1248	ND	0.10	0.50		µg/L	1	1/28/2010 07:25 PM
Aroclor 1254	ND	0.10	0.50		µg/L	1	1/28/2010 07:25 PM
Aroclor 1260	ND	0.10	0.50		µg/L	1	1/28/2010 07:25 PM
beta-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 08:17 PM
Chlordane	ND	0.050	0.25		µg/L	1	1/28/2010 08:17 PM
delta-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 08:17 PM
Dieldrin	ND	0.0050	0.050		µg/L	1	1/28/2010 08:17 PM
Endosulfan I	ND	0.0050	0.025		µg/L	1	1/28/2010 08:17 PM
Endosulfan II	ND	0.0050	0.050		µg/L	1	1/28/2010 08:17 PM
Endosulfan sulfate	ND	0.0050	0.050		µg/L	1	1/28/2010 08:17 PM
Endrin	ND	0.0050	0.050		µg/L	1	1/28/2010 08:17 PM
Endrin aldehyde	ND	0.0050	0.050		µg/L	1	1/28/2010 08:17 PM
gamma-BHC	ND	0.0050	0.025		µg/L	1	1/28/2010 08:17 PM
Heptachlor	ND	0.0050	0.025		µg/L	1	1/28/2010 08:17 PM
Heptachlor epoxide	ND	0.0050	0.025		µg/L	1	1/28/2010 08:17 PM
Toxaphene	ND	0.50	2.5		µg/L	1	1/28/2010 08:17 PM
Surr: Decachlorobiphenyl	58.8	0	29-137		%REC	1	1/28/2010 07:25 PM
Surr: Decachlorobiphenyl	51.3	0	29-137		%REC	1	1/28/2010 08:17 PM
Surr: Tetrachloro-m-xylene	81.0	0	47-117		%REC	1	1/28/2010 08:17 PM
Surr: Tetrachloro-m-xylene	76.9	0	47-117		%REC	1	1/28/2010 07:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004G		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
DRO	ND	0.050	0.050		mg/L	1	1/29/2010 04:34 PM
Surr: p-Terphenyl	81.8	0	35-131		%REC	1	1/29/2010 04:34 PM
HYDROCARBON CHAIN IDENTIFICATION							
	EPA 3510C		**EPA 8015B(M)**				
RunID: **GC16_100129A**	QC Batch: **61446**				PrepDate:	**1/28/2010**	Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	0.050	0.050		mg/L	1	1/29/2010 04:34 PM
T/R Hydrocarbons: C23-C32	ND	0.050	0.050		mg/L	1	1/29/2010 04:34 PM
T/R Hydrocarbons:>C32	ND	0.050	0.050		mg/L	1	1/29/2010 04:34 PM
Surr: p-Terphenyl	81.8	0	35-131		%REC	1	1/29/2010 04:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004H		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM							
			EPA 7196A				
RunID: **WETCHEM3_100127A**	QC Batch: **R117369**				PrepDate:	**1/27/2010**	Analyst: **MFP**
Chromium, Hexavalent	ND	0.0086	0.010		mg/L	1	1/27/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: 1087-ERB-W
Lab Order: 109828
Collection Date: 1/26/2010 4:30:00 PM
Project: Caltrans TO-16, 207126016
Matrix: DRINKING WATER
Lab ID: 109828-004I

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3010A		**EPA 200.7**				
RunID: **ICP8_100129G**	QC Batch: **61452**				PrepDate: **1/29/2010**		Analyst: **CL**
Boron	ND	0.068	0.10		mg/L	1	1/29/2010 06:47 PM
Boron	ND	0.068	0.10		mg/L	1	2/1/2010 10:59 AM
ICPMS METALS							
	EPA 200.8		**EPA 200.8**				
RunID: **ICP7_100202B**	QC Batch: **61490**				PrepDate: **2/1/2010**		Analyst: **SRB**
Antimony	ND	0.17	0.50		µg/L	1	2/2/2010 02:36 PM
Arsenic	ND	0.044	1.0		µg/L	1	2/2/2010 02:36 PM
Beryllium	ND	0.039	0.50		µg/L	1	2/2/2010 07:11 PM
Cadmium	0.035	0.025	0.50	J	µg/L	1	2/2/2010 02:36 PM
Chromium	ND	0.079	0.50		µg/L	1	2/2/2010 02:36 PM
Copper	ND	0.32	1.0		µg/L	1	2/2/2010 02:36 PM
Lead	0.15	0.10	1.0	J	µg/L	1	2/2/2010 02:36 PM
Nickel	ND	0.13	1.0		µg/L	1	2/2/2010 02:36 PM
Selenium	ND	0.31	0.50		µg/L	1	2/2/2010 02:36 PM
Silver	ND	0.027	0.50		µg/L	1	2/2/2010 02:36 PM
Thallium	ND	0.080	0.50		µg/L	1	2/2/2010 02:36 PM
Zinc	7.6	1.4	10	J	µg/L	1	2/2/2010 02:36 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 245.1				
RunID: **AA1_100201C**	QC Batch: **61453**				PrepDate: **1/29/2010**		Analyst: **CL**
Mercury	ND	0.081	0.20		µg/L	1	2/1/2010 11:55 AM
HARDNESS AS CALCIUM CARBONATE							
			SM2340C				
RunID: **WETCHEM_100130A**	QC Batch: **R117498**				PrepDate:		Analyst: **CBB**
Hardness (As CaCO3)	ND	0.82	2.0		mg/L	1	1/30/2010

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004J		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SULFIDE, TOTAL							
			SM4500-S= D				
RunID: **WETCHEM3_100202C**	QC Batch: **R117608**				PrepDate:		Analyst: **MFP**
Sulfide	ND	0.0050	0.010		mg/L	1	2/2/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004K		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CYANIDE, TOTAL							
			SM4500-CN E				
RunID: **WETCHEM3_100201E**	QC Batch: **61528**				PrepDate:	**1/29/2010**	Analyst: **MFP**
Cyanide	ND	0.0030	0.010		mg/L	1	2/1/2010

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004L		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 624

RunID: **MS11_100128A** QC Batch: **A10VW023** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	1/28/2010 02:04 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 02:04 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	1/28/2010 02:04 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	1/28/2010 02:04 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 02:04 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	1/28/2010 02:04 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	1/28/2010 02:04 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	1/28/2010 02:04 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 02:04 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	1/28/2010 02:04 PM
2-Chloroethyl vinyl ether	ND	0.14	0.50		µg/L	1	1/28/2010 02:04 PM
Acrolein	ND	1.5	10		µg/L	1	1/28/2010 02:04 PM
Acrylonitrile	ND	1.4	10		µg/L	1	1/28/2010 02:04 PM
Benzene	ND	0.17	0.50		µg/L	1	1/28/2010 02:04 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	1/28/2010 02:04 PM
Bromoform	ND	0.30	0.50		µg/L	1	1/28/2010 02:04 PM
Bromomethane	ND	0.32	0.50		µg/L	1	1/28/2010 02:04 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	1/28/2010 02:04 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 02:04 PM
Chloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 02:04 PM
Chloroform	ND	0.23	0.50		µg/L	1	1/28/2010 02:04 PM
Chloromethane	ND	0.32	0.50		µg/L	1	1/28/2010 02:04 PM
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	1/28/2010 02:04 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	1/28/2010 02:04 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	1/28/2010 02:04 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	1/28/2010 02:04 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 02:04 PM
Toluene	0.81	0.22	0.50		µg/L	1	1/28/2010 02:04 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	1/28/2010 02:04 PM
trans-1,3-Dichloropropene	ND	0.35	0.50		µg/L	1	1/28/2010 02:04 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	1/28/2010 02:04 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	1/28/2010 02:04 PM
Surr: 1,2-Dichloroethane-d4	85.1	0	70-130		%REC	1	1/28/2010 02:04 PM
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	1	1/28/2010 02:04 PM
Surr: Dibromofluoromethane	98.7	0	70-130		%REC	1	1/28/2010 02:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004L		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 624							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
Surr: Toluene-d8	115	0	70-130		%REC	1	1/28/2010 02:04 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
2-Butanone	ND	4.0	10		µg/L	1	1/28/2010 02:04 PM
Acetone	ND	5.0	10		µg/L	1	1/28/2010 02:04 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	1/28/2010 02:04 PM
o-Xylene	ND	0.27	0.50		µg/L	1	1/28/2010 02:04 PM
Surr: 1,2-Dichloroethane-d4	85.1	0	70-130		%REC	1	1/28/2010 02:04 PM
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	1	1/28/2010 02:04 PM
Surr: Dibromofluoromethane	98.7	0	70-130		%REC	1	1/28/2010 02:04 PM
Surr: Toluene-d8	115	0	70-130		%REC	1	1/28/2010 02:04 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	1087-ERB-W
Lab Order:	109828	**Collection Date:**	1/26/2010 4:30:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-004M		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B(M)				
RunID: **GC6_100127A**	QC Batch:	**I10VW0022**			PrepDate:		Analyst: **BD**
GRO	ND	0.050	0.050		mg/L	1	1/27/2010 02:10 PM
Surr: Bromofluorobenzene (FID)	87.0	0	71-130		%REC	1	1/27/2010 02:10 PM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC6_100127A**	QC Batch:	**I10VW0022**			PrepDate:		Analyst: **BD**
T/R Hydrocarbons: C4-C12	ND	0.050	0.050		mg/L	1	1/27/2010 02:10 PM
T/R Hydrocarbons: C4-C12	ND	0.050	0.20		mg/L	1	1/27/2010 02:10 PM
Surr: Bromofluorobenzene (FID)	87.0	0	71-130		%REC	1	1/27/2010 02:10 PM
Surr: Bromofluorobenzene (FID)	87.0	0	71-130		%REC	1	1/27/2010 02:10 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	Trip Blank
Lab Order:	109828	**Collection Date:**	
Project:	Caltrans TO-16, 207126016	**Matrix:**	DRINKING WATER
Lab ID:	109828-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 624

RunID: **MS11_100128A** QC Batch: **A10VW023** PrepDate: Analyst: **SLL**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	0.27	0.50		µg/L	1	1/28/2010 01:43 PM
1,1,2,2-Tetrachloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 01:43 PM
1,1,2-Trichloroethane	ND	0.43	0.50		µg/L	1	1/28/2010 01:43 PM
1,1-Dichloroethane	ND	0.17	0.50		µg/L	1	1/28/2010 01:43 PM
1,1-Dichloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 01:43 PM
1,2-Dichlorobenzene	ND	0.27	0.50		µg/L	1	1/28/2010 01:43 PM
1,2-Dichloroethane	ND	0.16	0.50		µg/L	1	1/28/2010 01:43 PM
1,2-Dichloropropane	ND	0.20	0.50		µg/L	1	1/28/2010 01:43 PM
1,3-Dichlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 01:43 PM
1,4-Dichlorobenzene	ND	0.24	0.50		µg/L	1	1/28/2010 01:43 PM
2-Chloroethyl vinyl ether	ND	0.14	0.50		µg/L	1	1/28/2010 01:43 PM
Acrolein	ND	1.5	10		µg/L	1	1/28/2010 01:43 PM
Acrylonitrile	ND	1.4	10		µg/L	1	1/28/2010 01:43 PM
Benzene	ND	0.17	0.50		µg/L	1	1/28/2010 01:43 PM
Bromodichloromethane	ND	0.39	0.50		µg/L	1	1/28/2010 01:43 PM
Bromoform	ND	0.30	0.50		µg/L	1	1/28/2010 01:43 PM
Bromomethane	ND	0.32	0.50		µg/L	1	1/28/2010 01:43 PM
Carbon tetrachloride	ND	0.38	0.50		µg/L	1	1/28/2010 01:43 PM
Chlorobenzene	ND	0.28	0.50		µg/L	1	1/28/2010 01:43 PM
Chloroethane	ND	0.35	0.50		µg/L	1	1/28/2010 01:43 PM
Chloroform	ND	0.23	0.50		µg/L	1	1/28/2010 01:43 PM
Chloromethane	ND	0.32	0.50		µg/L	1	1/28/2010 01:43 PM
cis-1,3-Dichloropropene	ND	0.29	0.50		µg/L	1	1/28/2010 01:43 PM
Dibromochloromethane	ND	0.40	0.50		µg/L	1	1/28/2010 01:43 PM
Ethylbenzene	ND	0.22	0.50		µg/L	1	1/28/2010 01:43 PM
Methylene chloride	ND	1.0	1.0		µg/L	1	1/28/2010 01:43 PM
Tetrachloroethene	ND	0.19	0.50		µg/L	1	1/28/2010 01:43 PM
Toluene	ND	0.22	0.50		µg/L	1	1/28/2010 01:43 PM
trans-1,2-Dichloroethene	ND	0.22	0.50		µg/L	1	1/28/2010 01:43 PM
trans-1,3-Dichloropropene	ND	0.35	0.50		µg/L	1	1/28/2010 01:43 PM
Trichloroethene	ND	0.15	0.50		µg/L	1	1/28/2010 01:43 PM
Vinyl chloride	ND	0.34	0.50		µg/L	1	1/28/2010 01:43 PM
Surr: 1,2-Dichloroethane-d4	86.6	0	70-130		%REC	1	1/28/2010 01:43 PM
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	1	1/28/2010 01:43 PM
Surr: Dibromofluoromethane	101	0	70-130		%REC	1	1/28/2010 01:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *08-Feb-10*

CLIENT: Ninyo & Moore
Client Sample ID: Trip Blank
Lab Order: 109828
Collection Date:
Project: Caltrans TO-16, 207126016
Matrix: DRINKING WATER
Lab ID: 109828-005A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 624							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
Surr: Toluene-d8	115	0	70-130		%REC	1	1/28/2010 01:43 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
EPA 8260B							
RunID: **MS11_100128A**	QC Batch: **A10VW023**				PrepDate:		Analyst: **SLL**
2-Butanone	ND	4.0	10		µg/L	1	1/28/2010 01:43 PM
Acetone	ND	5.0	10		µg/L	1	1/28/2010 01:43 PM
m,p-Xylene	ND	0.49	1.0		µg/L	1	1/28/2010 01:43 PM
o-Xylene	ND	0.27	0.50		µg/L	1	1/28/2010 01:43 PM
Surr: 1,2-Dichloroethane-d4	86.6	0	70-130		%REC	1	1/28/2010 01:43 PM
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	1	1/28/2010 01:43 PM
Surr: Dibromofluoromethane	101	0	70-130		%REC	1	1/28/2010 01:43 PM
Surr: Toluene-d8	115	0	70-130		%REC	1	1/28/2010 01:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 130.2_2340C_W

Sample ID: **MB-R117498** SampType: **MBLK** TestCode: **130.2_2340C** Units: **mg/L** Prep Date: RunNo: **117498**
Client ID: **PBW** Batch ID: **R117498** TestNo: **SM2340C** Analysis Date: **1/30/2010** SeqNo: **1865824**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness (As CaCO3)	ND	2.0									

Sample ID: **LCS-R117498** SampType: **LCS** TestCode: **130.2_2340C** Units: **mg/L** Prep Date: RunNo: **117498**
Client ID: **LCSW** Batch ID: **R117498** TestNo: **SM2340C** Analysis Date: **1/30/2010** SeqNo: **1865825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness (As CaCO3)	50.898	2.0	50.00	0	102	80	120				

Sample ID: **109780-001CDUP** SampType: **DUP** TestCode: **130.2_2340C** Units: **mg/L** Prep Date: RunNo: **117498**
Client ID: **ZZZZZZ** Batch ID: **R117498** TestNo: **SM2340C** Analysis Date: **1/30/2010** SeqNo: **1865827**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness (As CaCO3)	25.748	4.0						25.95	0.772	30	

Sample ID: **109780-005CMS** SampType: **MS** TestCode: **130.2_2340C** Units: **mg/L** Prep Date: RunNo: **117498**
Client ID: **ZZZZZZ** Batch ID: **R117498** TestNo: **SM2340C** Analysis Date: **1/30/2010** SeqNo: **1865829**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness (As CaCO3)	136.327	4.0	100.0	36.13	100	80	120				

Sample ID: **109780-005CMSD** SampType: **MSD** TestCode: **130.2_2340C** Units: **mg/L** Prep Date: RunNo: **117498**
Client ID: **ZZZZZZ** Batch ID: **R117498** TestNo: **SM2340C** Analysis Date: **1/30/2010** SeqNo: **1865830**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness (As CaCO3)	135.728	4.0	100.0	36.13	99.6	80	120	136.3	0.440	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **109828-004ADUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **117472**
Client ID: **1087-ERB-W** Batch ID: **R117472** TestNo: **SM4500-H+B** Analysis Date: **1/27/2010** SeqNo: **1865293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	5.790	0.10						5.800	0.173	10	H

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **109828-004C-DUP** SampType: **DUP** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117582**
Client ID: **1087-ERB-W** Batch ID: **61559** TestNo: **SM2540C** Analysis Date: **2/1/2010** SeqNo: **1867501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	8.000	10						8.000	0	10	J

Sample ID: **LCS-61559** SampType: **LCS** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117582**
Client ID: **LCSW** Batch ID: **61559** TestNo: **SM2540C** Analysis Date: **2/1/2010** SeqNo: **1867502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	1011.000	10	970.0	4.000	104	80	120				

Sample ID: **MB-61559** SampType: **MBLK** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117582**
Client ID: **PBW** Batch ID: **61559** TestNo: **SM2540C** Analysis Date: **2/1/2010** SeqNo: **1867503**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	4.000	10									J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **109812-012A-DUP** SampType: **DUP** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117477**
Client ID: **ZZZZZZ** Batch ID: **61475** TestNo: **SM2540D** Analysis Date: **1/29/2010** SeqNo: **1865349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	224.000	10						226.0	0.889	10	

Sample ID: **LCS-61475** SampType: **LCS** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117477**
Client ID: **LCSW** Batch ID: **61475** TestNo: **SM2540D** Analysis Date: **1/29/2010** SeqNo: **1865353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	89.000	10	87.90	0	101	80	120				

Sample ID: **MB-61475** SampType: **MBLK** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117477**
Client ID: **PBW** Batch ID: **61475** TestNo: **SM2540D** Analysis Date: **1/29/2010** SeqNo: **1865354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **109828-004C-DUP** SampType: **DUP** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117479**
Client ID: **1087-ERB-W** Batch ID: **61476** TestNo: **SM2540D** Analysis Date: **1/29/2010** SeqNo: **1865368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-61476** SampType: **LCS** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117479**
Client ID: **LCSW** Batch ID: **61476** TestNo: **SM2540D** Analysis Date: **1/29/2010** SeqNo: **1865375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	91.000	10	87.90	0	104	80	120				

Sample ID: **MB-61476** SampType: **MBLK** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117479**
Client ID: **PBW** Batch ID: **61476** TestNo: **SM2540D** Analysis Date: **1/29/2010** SeqNo: **1865376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: **MB-61425** SampType: **MBLK** TestCode: **160.5_2540F_** Units: **ml/L** Prep Date: **1/27/2010** RunNo: **117397**
Client ID: **PBW** Batch ID: **61425** TestNo: **SM2540F** Analysis Date: **1/27/2010** SeqNo: **1864280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Settleable Matter	ND	0.10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: **MB-61595** SampType: **MBLK** TestCode: **1664_HEM_W** Units: **mg/L** Prep Date: **2/3/2010** RunNo: **117650**
Client ID: **PBW** Batch ID: **61595** TestNo: **EPA 1664 _H** Analysis Date: **2/4/2010** SeqNo: **1868986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	ND	4.0									

Sample ID: **LCS-61595** SampType: **LCS** TestCode: **1664_HEM_W** Units: **mg/L** Prep Date: **2/3/2010** RunNo: **117650**
Client ID: **LCSW** Batch ID: **61595** TestNo: **EPA 1664 _H** Analysis Date: **2/4/2010** SeqNo: **1868987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	32.600	4.0	40.00	0	81.5	78	114				

Sample ID: **109828-004D-DUP** SampType: **DUP** TestCode: **1664_HEM_W** Units: **mg/L** Prep Date: **2/3/2010** RunNo: **117650**
Client ID: **1087-ERB-W** Batch ID: **61595** TestNo: **EPA 1664 _H** Analysis Date: **2/4/2010** SeqNo: **1868992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	ND	4.8						0	0	20	

Sample ID: **109899-002F-MS** SampType: **MS** TestCode: **1664_HEM_W** Units: **mg/L** Prep Date: **2/3/2010** RunNo: **117650**
Client ID: **ZZZZZZ** Batch ID: **61595** TestNo: **EPA 1664 _H** Analysis Date: **2/4/2010** SeqNo: **1869004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	37.093	4.7	46.51	0	79.8	78	114				

Sample ID: **109899-002F-MSD** SampType: **MSD** TestCode: **1664_HEM_W** Units: **mg/L** Prep Date: **2/3/2010** RunNo: **117650**
Client ID: **ZZZZZZ** Batch ID: **61595** TestNo: **EPA 1664 _H** Analysis Date: **2/4/2010** SeqNo: **1869005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	35.814	4.7	46.51	0	77.0	78	114	37.09	3.51	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_SGT/HEM_W

Sample ID: **MB-61653** SampType: **MBLK** TestCode: **1664_SGT/HE** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117708**
Client ID: **PBW** Batch ID: **61653** TestNo: **EPA 1664_SG** Analysis Date: **2/5/2010** SeqNo: **1870596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	0.700	2.0									J

Sample ID: **LCS-61653** SampType: **LCS** TestCode: **1664_SGT/HE** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117708**
Client ID: **LCSW** Batch ID: **61653** TestNo: **EPA 1664_SG** Analysis Date: **2/5/2010** SeqNo: **1870597**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	17.100	2.0	20.00	0.7000	82.0	78	114				

Sample ID: **109828-001D-DUP** SampType: **DUP** TestCode: **1664_SGT/HE** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117708**
Client ID: **1087-201-W** Batch ID: **61653** TestNo: **EPA 1664_SG** Analysis Date: **2/5/2010** SeqNo: **1870599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	0.947	2.4						0.5714	0	20	J

Sample ID: **MB-61653-MS** SampType: **MS** TestCode: **1664_SGT/HE** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117708**
Client ID: **ZZZZZZ** Batch ID: **61653** TestNo: **EPA 1664_SG** Analysis Date: **2/5/2010** SeqNo: **1870603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	14.400	2.0	20.00	0.7000	68.5	78	114				S

Sample ID: **MB-61653-MSD** SampType: **MSD** TestCode: **1664_SGT/HE** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117708**
Client ID: **ZZZZZZ** Batch ID: **61653** TestNo: **EPA 1664_SG** Analysis Date: **2/5/2010** SeqNo: **1870604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	13.900	2.0	20.00	0.7000	66.0	78	114	14.40	3.53	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 180.1_W

Sample ID: **MB-R117538** SampType: **MBLK** TestCode: **180.1_W** Units: **NTU** Prep Date: RunNo: **117538**
Client ID: **PBW** Batch ID: **R117538** TestNo: **EPA 180.1** Analysis Date: **1/28/2010** SeqNo: **1866674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10									

Sample ID: **109828-003ADUP** SampType: **DUP** TestCode: **180.1_W** Units: **NTU** Prep Date: RunNo: **117538**
Client ID: **1087-203-W** Batch ID: **R117538** TestNo: **EPA 180.1** Analysis Date: **1/28/2010** SeqNo: **1866679**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	37750.000	50						38300	1.45	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WD

Sample ID: **109828-002PDUP** SampType: **DUP** TestCode: **200.7_WD** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117532**
Client ID: **1087-201-WD** Batch ID: **61486** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1866633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.010	0.010						0.008810	16.2	20	
Cadmium	ND	0.0030						0	0	20	
Copper	0.044	0.0050						0.03725	17.7	20	
Lead	ND	0.0050						0	0	20	
Nickel	0.012	0.0050						0.01154	6.66	20	
Selenium	0.010	0.010						0.009527	8.97	20	
Silver	ND	0.0030						0	0	20	
Zinc	0.037	0.010						0.03715	0.247	20	

Sample ID: **109828-003PMS** SampType: **MS** TestCode: **200.7_WD** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117532**
Client ID: **1087-203-W** Batch ID: **61486** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1866635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.691	0.010	2.500	0	108	66	128				
Cadmium	2.409	0.0030	2.500	0	96.4	72	122				
Copper	2.976	0.0050	2.500	0.03385	118	70	130				
Lead	2.455	0.0050	2.500	0	98.2	71	121				
Nickel	2.458	0.0050	2.500	0.02059	97.5	63	125				
Selenium	2.700	0.010	2.500	0.01404	107	73	124				
Silver	2.799	0.0030	2.500	0	112	60	138				
Zinc	2.456	0.010	2.500	0.02881	97.1	71	120				

Sample ID: **109828-003PMSD** SampType: **MSD** TestCode: **200.7_WD** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117532**
Client ID: **1087-203-W** Batch ID: **61486** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1866636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.600	0.010	2.500	0	104	66	128	2.691	3.44	20	
Cadmium	2.355	0.0030	2.500	0	94.2	72	122	2.409	2.28	20	
Copper	2.904	0.0050	2.500	0.03385	115	70	130	2.976	2.45	20	
Lead	2.364	0.0050	2.500	0	94.6	71	121	2.455	3.76	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WD

Sample ID: **109828-003PMSD** SampType: **MSD** TestCode: **200.7_WD** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117532**
Client ID: **1087-203-W** Batch ID: **61486** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1866636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	2.401	0.0050	2.500	0.02059	95.2	63	125	2.458	2.33	20	
Selenium	2.612	0.010	2.500	0.01404	104	73	124	2.700	3.29	20	
Silver	2.736	0.0030	2.500	0	109	60	138	2.799	2.27	20	
Zinc	2.388	0.010	2.500	0.02881	94.3	71	120	2.456	2.83	20	

Sample ID: **MB-61486** SampType: **MBLK** TestCode: **200.7_WD** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117558**
Client ID: **PBW** Batch ID: **61486** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/2/2010** SeqNo: **1867081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	ND	0.10									

Sample ID: **LCS-61486** SampType: **LCS** TestCode: **200.7_WD** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117558**
Client ID: **LCSW** Batch ID: **61486** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/2/2010** SeqNo: **1867082**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	9.292	0.10	10.00	0	92.9	85	115				

Sample ID: **109828-002PDUP** SampType: **DUP** TestCode: **200.7_WD** Units: **mg/L** Prep Date: **2/1/2010** RunNo: **117558**
Client ID: **1087-201-WD** Batch ID: **61486** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/2/2010** SeqNo: **1867084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.008	0.010						0.008966	0	20	J
Boron	2.489	0.10						2.561	2.86	20	
Calcium	497.063	0.50						513.0	3.15	20	
Copper	0.034	0.0050						0.03435	0.483	20	
Lead	ND	0.0050						0	0	20	
Nickel	0.010	0.0050						0.01108	11.4	20	
Selenium	0.009	0.010						0.007634	0	20	J
Silver	0.001	0.0030						0.001179	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WD

Sample ID: **109828-002PDUP**	SampType: **DUP**	TestCode: **200.7_WD**	Units: **mg/L**	Prep Date: **2/1/2010**	RunNo: **117558**
Client ID: **1087-201-WD**	Batch ID: **61486**	TestNo: **EPA 200.7**	**EPA 3010A**	Analysis Date: **2/2/2010**	SeqNo: **1867084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.030	0.010						0.03147	3.38	20	

Sample ID: **109828-003P-MS**	SampType: **MS**	TestCode: **200.7_WD**	Units: **mg/L**	Prep Date: **2/1/2010**	RunNo: **117558**
Client ID: **1087-203-W**	Batch ID: **61486**	TestNo: **EPA 200.7**	**EPA 3010A**	Analysis Date: **2/2/2010**	SeqNo: **1867086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	12.990	0.10	10.00	2.195	108	78	121				

Sample ID: **109828-003P-MSD**	SampType: **MSD**	TestCode: **200.7_WD**	Units: **mg/L**	Prep Date: **2/1/2010**	RunNo: **117558**
Client ID: **1087-203-W**	Batch ID: **61486**	TestNo: **EPA 200.7**	**EPA 3010A**	Analysis Date: **2/2/2010**	SeqNo: **1867087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	11.847	0.10	10.00	2.195	96.5	78	121	12.99	9.20	20	

Sample ID: **109828-003PMS**	SampType: **MS**	TestCode: **200.7_WD**	Units: **mg/L**	Prep Date: **2/1/2010**	RunNo: **117558**
Client ID: **1087-203-W**	Batch ID: **61486**	TestNo: **EPA 200.7**	**EPA 3010A**	Analysis Date: **2/2/2010**	SeqNo: **1867089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	11.791	0.10	10.00	2.195	96.0	78	121				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WW

Sample ID: **MB-61452** SampType: **MBLK** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117493**
Client ID: **PBW** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **1/29/2010** SeqNo: **1865677**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	ND	0.10									

Sample ID: **LCS-61452** SampType: **LCS** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117493**
Client ID: **LCSW** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **1/29/2010** SeqNo: **1865678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	9.419	0.10	10.00	0	94.2	85	115				

Sample ID: **109828-004IDUP** SampType: **DUP** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117493**
Client ID: **1087-ERB-W** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **1/29/2010** SeqNo: **1865685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.50						0	0	20	
Antimony	ND	0.0050						0	0	20	
Barium	ND	0.0030						0	0	20	
Beryllium	ND	0.0030						0	0	20	
Boron	ND	0.10						0	0	20	
Cadmium	ND	0.0030						0	0	20	
Chromium	ND	0.0030						0	0	20	
Cobalt	ND	0.0030						0	0	20	
Copper	ND	0.0050						0	0	20	
Iron	ND	0.50						0	0	20	
Lead	ND	0.0050						0	0	20	
Manganese	ND	0.50						0	0	20	
Molybdenum	ND	0.0050						0	0	20	
Nickel	ND	0.0050						0	0	20	
Selenium	ND	0.010						0	0	20	
Silver	0.001	0.0030						0	0	20	J
Thallium	ND	0.015						0	0	20	
Vanadium	ND	0.0030						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WW

Sample ID: **109828-004IDUP** SampType: **DUP** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117493**
Client ID: **1087-ERB-W** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **1/29/2010** SeqNo: **1865685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	ND	0.010						0	0	20	

Sample ID: **109828-004IMS** SampType: **MS** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117493**
Client ID: **1087-ERB-W** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **1/29/2010** SeqNo: **1865686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	18.082	0.50	20.00	0	90.4	68	124				
Antimony	2.453	0.0050	2.500	0	98.1	64	130				
Barium	2.453	0.0030	2.500	0	98.1	60	129				
Beryllium	2.503	0.0030	2.500	0	100	77	118				
Boron	9.272	0.10	10.00	0	92.7	78	121				
Cadmium	2.380	0.0030	2.500	0	95.2	72	122				
Chromium	2.471	0.0030	2.500	0	98.8	77	116				
Cobalt	2.425	0.0030	2.500	0	97.0	66	124				
Copper	2.541	0.0050	2.500	0	102	70	130				
Iron	19.760	0.50	20.00	0	98.8	65	129				
Lead	2.402	0.0050	2.500	0	96.1	71	121				
Manganese	17.586	0.50	20.00	0	87.9	75	112				
Molybdenum	2.413	0.0050	2.500	0	96.5	64	129				
Nickel	2.421	0.0050	2.500	0	96.8	63	125				
Selenium	2.328	0.010	2.500	0	93.1	73	124				
Silver	2.500	0.0030	2.500	0	100	60	138				
Thallium	2.444	0.015	2.500	0	97.8	66	125				
Vanadium	2.484	0.0030	2.500	0	99.4	79	118				
Zinc	2.440	0.010	2.500	0	97.6	71	120				

Sample ID: **109828-004IMSD** SampType: **MSD** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117493**
Client ID: **1087-ERB-W** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **1/29/2010** SeqNo: **1865687**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WW

Sample ID: **109828-004IMSD** SampType: **MSD** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117493**
Client ID: **1087-ERB-W** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **1/29/2010** SeqNo: **1865687**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	18.612	0.50	20.00	0	93.1	68	124	18.08	2.89	20	
Antimony	2.542	0.0050	2.500	0	102	64	130	2.453	3.55	20	
Barium	2.516	0.0030	2.500	0	101	60	129	2.453	2.56	20	
Beryllium	2.574	0.0030	2.500	0	103	77	118	2.503	2.83	20	
Boron	9.560	0.10	10.00	0	95.6	78	121	9.272	3.06	20	
Cadmium	2.431	0.0030	2.500	0	97.2	72	122	2.380	2.10	20	
Chromium	2.554	0.0030	2.500	0	102	77	116	2.471	3.34	20	
Cobalt	2.479	0.0030	2.500	0	99.1	66	124	2.425	2.21	20	
Copper	2.589	0.0050	2.500	0	104	70	130	2.541	1.85	20	
Iron	19.432	0.50	20.00	0	97.2	65	129	19.76	1.67	20	
Lead	2.461	0.0050	2.500	0	98.5	71	121	2.402	2.43	20	
Manganese	18.097	0.50	20.00	0	90.5	75	112	17.59	2.86	20	
Molybdenum	2.485	0.0050	2.500	0	99.4	64	129	2.413	2.91	20	
Nickel	2.479	0.0050	2.500	0	99.2	63	125	2.421	2.39	20	
Selenium	2.397	0.010	2.500	0	95.9	73	124	2.328	2.95	20	
Silver	2.558	0.0030	2.500	0	102	60	138	2.500	2.29	20	
Thallium	2.524	0.015	2.500	0	101	66	125	2.444	3.22	20	
Vanadium	2.568	0.0030	2.500	0	103	79	118	2.484	3.30	20	
Zinc	2.447	0.010	2.500	0	97.9	71	120	2.440	0.263	20	

Sample ID: **109828-004I-DUP** SampType: **DUP** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117512**
Client ID: **1087-ERB-W** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1866165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.010						0	0	20	

Sample ID: **109828-004I-MS** SampType: **MS** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117512**
Client ID: **1087-ERB-W** Batch ID: **61452** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **2/1/2010** SeqNo: **1866166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WW

Sample ID: **109828-004I-MS**	SampType: **MS**	TestCode: **200.7_WW**	Units: **mg/L**	Prep Date: **1/29/2010**	RunNo: **117512**
Client ID: **1087-ERB-W**	Batch ID: **61452**	TestNo: **EPA 200.7**	**EPA 3010A**	Analysis Date: **2/1/2010**	SeqNo: **1866166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.387	0.010	2.500	0	95.5	66	128				

Sample ID: **109828-004I-MSD**	SampType: **MSD**	TestCode: **200.7_WW**	Units: **mg/L**	Prep Date: **1/29/2010**	RunNo: **117512**
Client ID: **1087-ERB-W**	Batch ID: **61452**	TestNo: **EPA 200.7**	**EPA 3010A**	Analysis Date: **2/1/2010**	SeqNo: **1866167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.341	0.010	2.500	0	93.6	66	128	2.387	1.92	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **LCS-61490** SampType: **LCS** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117605**
Client ID: **LCSW** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.824	0.50	10.00	0	98.2	85	115				
Arsenic	9.176	1.0	10.00	0.06375	91.1	85	115				
Cadmium	8.943	0.50	10.00	0	89.4	85	115				
Chromium	10.360	0.50	10.00	0.1500	102	85	115				
Copper	9.996	1.0	10.00	0	100	85	115				
Lead	9.333	1.0	10.00	0	93.3	85	115				
Nickel	10.688	1.0	10.00	0.1400	105	85	115				
Selenium	9.746	0.50	10.00	0	97.5	85	115				
Silver	9.335	0.50	10.00	0	93.4	85	115				
Thallium	9.218	0.50	10.00	0	92.2	85	115				
Zinc	93.188	10	100.0	0	93.2	85	115				

Sample ID: **109828-001I-DUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117605**
Client ID: **1087-201-W** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	29.376	1.0	0	29.01	0	0	0				
Cadmium	11.340	0.50	0	11.54	0	0	0				
Chromium	106.291	0.50	0	106.8	0	0	0				
Lead	31.818	1.0	0	31.49	0	0	0				
Nickel	112.865	1.0	0	111.1	0	0	0				
Silver	0.139	0.50	0	0.1850	0	0	0				J
Thallium	0.331	0.50	0	0.3213	0	0	0				J

Sample ID: **MB-61490** SampType: **MBLK** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117605**
Client ID: **PBW** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.50									
Arsenic	0.064	1.0									J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **MB-61490** SampType: **MBLK** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117605**
Client ID: **PBW** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	0.50									
Chromium	0.150	0.50									J
Copper	ND	1.0									
Lead	ND	1.0									
Nickel	0.140	1.0									J
Selenium	ND	0.50									
Silver	ND	0.50									
Thallium	ND	0.50									
Zinc	ND	10									

Sample ID: **109828-004I-MS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117605**
Client ID: **1087-ERB-W** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.054	0.50	10.00	0	101	70	130				
Arsenic	9.688	1.0	10.00	0	96.9	70	130				
Cadmium	11.741	0.50	10.00	0.03500	117	70	130				
Chromium	10.629	0.50	10.00	0	106	70	130				
Copper	11.221	1.0	10.00	0	112	70	130				
Lead	9.233	1.0	10.00	0.1500	90.8	70	130				
Nickel	10.898	1.0	10.00	0	109	70	130				
Selenium	9.786	0.50	10.00	0	97.9	70	130				
Silver	9.104	0.50	10.00	0	91.0	70	130				
Thallium	9.310	0.50	10.00	0	93.1	70	130				
Zinc	95.986	10	100.0	7.626	88.4	70	130				

Sample ID: **109828-004I-MSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117605**
Client ID: **1087-ERB-W** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **109828-004I-MSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117605**
Client ID: **1087-ERB-W** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.795	0.50	10.00	0	98.0	70	130	10.05	2.61	20	
Arsenic	8.941	1.0	10.00	0	89.4	70	130	9.688	8.01	20	
Cadmium	8.658	0.50	10.00	0.03500	86.2	70	130	11.74	30.2	20	R
Chromium	11.240	0.50	10.00	0	112	70	130	10.63	5.59	20	
Copper	10.561	1.0	10.00	0	106	70	130	11.22	6.06	20	
Lead	9.938	1.0	10.00	0.1500	97.9	70	130	9.232	7.36	20	
Nickel	11.778	1.0	10.00	0	118	70	130	10.90	7.76	20	
Selenium	9.006	0.50	10.00	0	90.1	70	130	9.786	8.30	20	
Silver	9.101	0.50	10.00	0	91.0	70	130	9.104	0.0275	20	
Thallium	9.230	0.50	10.00	0	92.3	70	130	9.310	0.863	20	
Zinc	90.470	10	100.0	7.626	82.8	70	130	95.99	5.92	20	

Sample ID: **MB-61490** SampType: **MBLK** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117609**
Client ID: **PBW** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1868033**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	ND	0.50									

Sample ID: **LCS-61490** SampType: **LCS** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117609**
Client ID: **LCSW** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1868034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	9.794	0.50	10.00	0.08125	97.1	85	115				

Sample ID: **109828-004I-MS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117609**
Client ID: **1087-ERB-W** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1868036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	9.596	0.50	10.00	0	96.0	70	130				

Qualifiers:

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S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **109828-004I-MSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117609**
Client ID: **1087-ERB-W** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1868037**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	9.690	0.50	10.00	0	96.9	70	130	11.00	12.6	20	

Sample ID: **109828-001I-DUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117609**
Client ID: **1087-201-W** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1868039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	ND	100	0	0	0	0	0				

Sample ID: **109828-001I-DUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117609**
Client ID: **1087-201-W** Batch ID: **61490** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1868047**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	151.731	2.5	0	152.1	0	0	0				
Selenium	40.731	2.5	0	40.14	0	0	0				
Zinc	522.019	50	0	540.4	0	0	0				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **MB-61600** SampType: **MBLK** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/4/2010** RunNo: **117681**
Client ID: **PBW** Batch ID: **61600** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869966**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.50									

Sample ID: **LCS-61600** SampType: **LCS** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/4/2010** RunNo: **117681**
Client ID: **LCSW** Batch ID: **61600** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869967**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.011	0.50	10.00	0	100	85	115				

Sample ID: **MB-61600-MS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/4/2010** RunNo: **117681**
Client ID: **ZZZZZZ** Batch ID: **61600** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.839	0.50	10.00	0	98.4	70	130				

Sample ID: **MB-61600-MSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/4/2010** RunNo: **117681**
Client ID: **ZZZZZZ** Batch ID: **61600** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869969**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.833	0.50	10.00	0	98.3	70	130	9.839	0.0635	20	

Sample ID: **109828-001I-DUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117681**
Client ID: **1087-201-W** Batch ID: **61600** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869971**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.419	2.5						2.663	0	20	J

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS

Sample ID: **MB-61489** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117573**
Client ID: **PBW** Batch ID: **61489** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.50									
Arsenic	ND	1.0									
Beryllium	ND	0.50									
Cadmium	ND	0.50									
Chromium	0.364	0.50									J
Copper	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	0.50									
Silver	ND	0.50									
Thallium	ND	0.50									
Zinc	ND	10									

Sample ID: **LCS-61489** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117573**
Client ID: **LCSW** Batch ID: **61489** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.785	0.50	10.00	0	97.9	85	115				
Arsenic	9.999	1.0	10.00	0	100	85	115				
Beryllium	9.346	0.50	10.00	0	93.5	85	115				
Cadmium	10.165	0.50	10.00	0	102	85	115				
Chromium	10.013	0.50	10.00	0.3638	96.5	85	115				
Copper	10.231	1.0	10.00	0	102	85	115				
Nickel	10.254	1.0	10.00	0	103	85	115				
Selenium	9.731	0.50	10.00	0	97.3	85	115				
Silver	10.401	0.50	10.00	0	104	85	115				
Thallium	8.829	0.50	10.00	0	88.3	85	115				
Zinc	96.440	10	100.0	0	96.4	85	115				

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS

Sample ID: **MB-61489-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117573**
Client ID: **ZZZZZZ** Batch ID: **61489** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.075	0.50	10.00	0	101	70	130				
Arsenic	9.808	1.0	10.00	0	98.1	70	130				
Beryllium	10.310	0.50	10.00	0	103	70	130				
Cadmium	10.025	0.50	10.00	0	100	70	130				
Chromium	10.229	0.50	10.00	0.3638	98.6	70	130				
Copper	10.490	1.0	10.00	0	105	70	130				
Nickel	10.388	1.0	10.00	0	104	70	130				
Selenium	10.058	0.50	10.00	0	101	70	130				
Silver	9.490	0.50	10.00	0	94.9	70	130				
Thallium	9.951	0.50	10.00	0	99.5	70	130				
Zinc	101.858	10	100.0	0	102	70	130				

Sample ID: **MB-61489-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117573**
Client ID: **ZZZZZZ** Batch ID: **61489** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/2/2010** SeqNo: **1867307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.580	0.50	10.00	0	95.8	70	130	10.08	5.04	20	
Arsenic	9.435	1.0	10.00	0	94.4	70	130	9.808	3.87	20	
Beryllium	9.638	0.50	10.00	0	96.4	70	130	10.31	6.74	20	
Cadmium	9.415	0.50	10.00	0	94.2	70	130	10.03	6.28	20	
Chromium	9.904	0.50	10.00	0.3638	95.4	70	130	10.23	3.23	20	
Copper	9.969	1.0	10.00	0	99.7	70	130	10.49	5.10	20	
Nickel	9.971	1.0	10.00	0	99.7	70	130	10.39	4.09	20	
Selenium	10.208	0.50	10.00	0	102	70	130	10.06	1.48	20	
Silver	9.120	0.50	10.00	0	91.2	70	130	9.490	3.98	20	
Thallium	9.389	0.50	10.00	0	93.9	70	130	9.951	5.82	20	
Zinc	110.843	10	100.0	0	111	70	130	101.9	8.45	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS

Sample ID: **MB-61562** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/3/2010** RunNo: **117630**
Client ID: **PBW** Batch ID: **61562** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/3/2010** SeqNo: **1868626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.0									

Sample ID: **LCS-61562** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/3/2010** RunNo: **117630**
Client ID: **LCSW** Batch ID: **61562** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/3/2010** SeqNo: **1868627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.051	1.0	10.00	0	101	85	115				

Sample ID: **MB-61562-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/3/2010** RunNo: **117630**
Client ID: **ZZZZZZ** Batch ID: **61562** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/3/2010** SeqNo: **1868628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.196	1.0	10.00	0	102	70	130				

Sample ID: **MB-61562-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/3/2010** RunNo: **117630**
Client ID: **ZZZZZZ** Batch ID: **61562** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/3/2010** SeqNo: **1868629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.849	1.0	10.00	0	98.5	70	130	10.20	3.47	20	

Sample ID: **109828-001P-DUP** SampType: **DUP** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/3/2010** RunNo: **117630**
Client ID: **1087-201-W** Batch ID: **61562** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/3/2010** SeqNo: **1868631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.141	1.0						0.1700	0	20	J

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS

Sample ID: **MB-61599** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/4/2010** RunNo: **117680**
Client ID: **PBW** Batch ID: **61599** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.50									

Sample ID: **LCS-61599** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/4/2010** RunNo: **117680**
Client ID: **LCSW** Batch ID: **61599** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869961**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.849	0.50	10.00	0	98.5	85	115				

Sample ID: **MB-61599-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/4/2010** RunNo: **117680**
Client ID: **ZZZZZZ** Batch ID: **61599** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.958	0.50	10.00	0	99.6	70	130				

Sample ID: **MB-61599-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/4/2010** RunNo: **117680**
Client ID: **ZZZZZZ** Batch ID: **61599** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869963**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.955	0.50	10.00	0	99.6	70	130	9.958	0.0251	20	

Sample ID: **109828-001P-DUP** SampType: **DUP** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/3/2010** RunNo: **117680**
Client ID: **1087-201-W** Batch ID: **61599** TestNo: **EPA 200.8** **EPA 200.8** Analysis Date: **2/4/2010** SeqNo: **1869965**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.385	0.50						2.372	0.525	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W

Sample ID: **MB-61453** SampType: **MBLK** TestCode: **245.1_W** Units: **µg/L** Prep Date: **1/29/2010** RunNo: **117511**
Client ID: **PBW** Batch ID: **61453** TestNo: **EPA 245.1** Analysis Date: **2/1/2010** SeqNo: **1866129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.20									

Sample ID: **LCS-61453** SampType: **LCS** TestCode: **245.1_W** Units: **µg/L** Prep Date: **1/29/2010** RunNo: **117511**
Client ID: **LCSW** Batch ID: **61453** TestNo: **EPA 245.1** Analysis Date: **2/1/2010** SeqNo: **1866130**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	11.101	0.20	10.00	0	111	85	115				

Sample ID: **109828-003I-MS** SampType: **MS** TestCode: **245.1_W** Units: **µg/L** Prep Date: **1/29/2010** RunNo: **117511**
Client ID: **1087-203-W** Batch ID: **61453** TestNo: **EPA 245.1** Analysis Date: **2/1/2010** SeqNo: **1866172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	53.760	1.0	50.00	1.084	105	70	130				

Sample ID: **109828-003I-MSD** SampType: **MSD** TestCode: **245.1_W** Units: **µg/L** Prep Date: **1/29/2010** RunNo: **117511**
Client ID: **1087-203-W** Batch ID: **61453** TestNo: **EPA 245.1** Analysis Date: **2/1/2010** SeqNo: **1866173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	54.140	1.0	50.00	1.084	106	70	130	53.76	0.704	20	

Sample ID: **109828-003I-DUP** SampType: **DUP** TestCode: **245.1_W** Units: **µg/L** Prep Date: **1/29/2010** RunNo: **117511**
Client ID: **1087-203-W** Batch ID: **61453** TestNo: **EPA 245.1** Analysis Date: **2/1/2010** SeqNo: **1866175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.115	1.0						1.084	2.78	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CL

Sample ID: **MB-R117491** SampType: **MBLK** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **PBW** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865619**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **LCS-R117491** SampType: **LCS** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **LCSW** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865620**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.980	0.50	1.000	0	98.0	90	110				

Sample ID: **109835-003A-DUP** SampType: **DUP** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865622**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	19.859	1.0						19.74	0.591	20	

Sample ID: **109835-003A-MS** SampType: **MS** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865623**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24.813	1.0	5.000	19.74	101	80	120				

Sample ID: **109835-003A-MSD** SampType: **MSD** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865624**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24.692	1.0	5.000	19.74	99.0	80	120	24.81	0.491	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CL

Sample ID: **MB-R117514** SampType: **MBLK** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **PBW** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866336**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **LCS-R117514** SampType: **LCS** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **LCSW** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866337**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.972	0.50	1.000	0	97.2	90	110				

Sample ID: **109828-004A-DUP** SampType: **DUP** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866339**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50						0	0	20	

Sample ID: **109828-004A-MS** SampType: **MS** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.422	0.50	2.500	0	96.9	80	120				

Sample ID: **109828-004A-MSD** SampType: **MSD** TestCode: **300_W_CL** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866341**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.459	0.50	2.500	0	98.3	80	120	2.422	1.50	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO2

Sample ID: **109810-001A-MS** SampType: **MS** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **ZZZZZZ** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1865491**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	3.022	0.10	2.500	0	121	80	120				S

Sample ID: **109810-001A-MSD** SampType: **MSD** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **ZZZZZZ** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1865492**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	3.013	0.10	2.500	0	121	80	120	3.022	0.302	20	S

Sample ID: **MB-R117428** SampType: **MBLK** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **PBW** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1865493**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	ND	0.10									

Sample ID: **LCS-R117428** SampType: **LCS** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **LCSW** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1865494**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	0.969	0.10	1.000	0	96.9	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO2

Sample ID: **MB-R117491** SampType: **MBLK** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **PBW** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	ND	0.10									

Sample ID: **LCS-R117491** SampType: **LCS** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **LCSW** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	0.970	0.10	1.000	0	97.0	90	110				

Sample ID: **109835-003A-DUP** SampType: **DUP** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865608**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	0.227	0.20						0.2206	3.04	20	H

Sample ID: **109835-003A-MS** SampType: **MS** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	5.297	0.20	5.000	0	106	80	120				H

Sample ID: **109835-003A-MSD** SampType: **MSD** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	5.280	0.20	5.000	0	106	80	120	5.297	0.337	20	H

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO2

Sample ID: **MB-R117514** SampType: **MBLK** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **PBW** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868394**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	ND	0.10									

Sample ID: **LCS-R117514** SampType: **LCS** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **LCSW** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	0.948	0.10	1.000	0	94.8	90	110				

Sample ID: **109828-004A-DUP** SampType: **DUP** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868397**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	ND	0.10						0	0	20	H

Sample ID: **109828-004A-MS** SampType: **MS** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868398**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	2.571	0.10	2.500	0	103	80	120				H

Sample ID: **109828-004A-MSD** SampType: **MSD** TestCode: **300_W_NO2** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	2.599	0.10	2.500	0	104	80	120	2.571	1.08	20	H

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO3

Sample ID: **109810-001A-MS** SampType: **MS** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **ZZZZZZ** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1864598**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	5.353	0.10	2.500	3.046	92.3	80	120				

Sample ID: **109810-001A-MSD** SampType: **MSD** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **ZZZZZZ** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1864599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	5.342	0.10	2.500	3.046	91.8	80	120	5.353	0.194	20	

Sample ID: **MB-R117428** SampType: **MBLK** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **PBW** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1864600**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10									

Sample ID: **LCS-R117428** SampType: **LCS** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **LCSW** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1864601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.980	0.10	1.000	0	98.0	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO3

Sample ID: **MB-R117491** SampType: **MBLK** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **PBW** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10									

Sample ID: **LCS-R117491** SampType: **LCS** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **LCSW** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865612**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.976	0.10	1.000	0	97.6	90	110				

Sample ID: **109835-003A-DUP** SampType: **DUP** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	3.111	0.20						3.055	1.81	20	H

Sample ID: **109835-003A-MS** SampType: **MS** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	7.904	0.20	5.000	3.005	98.0	80	120				H

Sample ID: **109835-003A-MSD** SampType: **MSD** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	7.999	0.20	5.000	3.005	99.9	80	120	7.904	1.20	20	H

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO3

Sample ID: **MB-R117514** SampType: **MBLK** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **PBW** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10									

Sample ID: **LCS-R117514** SampType: **LCS** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **LCSW** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868403**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.988	0.10	1.000	0	98.8	90	110				

Sample ID: **109828-004A-DUP** SampType: **DUP** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868405**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10						0	0	20	H

Sample ID: **109828-004A-MS** SampType: **MS** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.641	0.10	2.500	0	106	80	120				H

Sample ID: **109828-004A-MSD** SampType: **MSD** TestCode: **300_W_NO3** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1868407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.679	0.10	2.500	0	107	80	120	2.641	1.40	20	H

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4

Sample ID: **109810-001A-MS** SampType: **MS** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **ZZZZZZ** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1865953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	18.597	1.0	5.000	13.36	105	80	120				

Sample ID: **109810-001A-MSD** SampType: **MSD** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **ZZZZZZ** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1865954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	18.284	1.0	5.000	13.36	98.5	80	120	18.60	1.70	20	

Sample ID: **MB-R117428** SampType: **MBLK** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **PBW** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1865955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	1.0									

Sample ID: **LCS-R117428** SampType: **LCS** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117428**
Client ID: **LCSW** Batch ID: **R117428** TestNo: **EPA 300.0** Analysis Date: **1/27/2010** SeqNo: **1865956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	2.052	1.0	2.000	0	103	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4

Sample ID: **MB-R117491** SampType: **MBLK** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **PBW** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	1.0									

Sample ID: **LCS-R117491** SampType: **LCS** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **LCSW** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1.900	1.0	2.000	0	95.0	90	110				

Sample ID: **109835-003A-DUP** SampType: **DUP** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	37.133	2.0						31.00	18.0	20	

Sample ID: **109835-003A-MS** SampType: **MS** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	41.405	2.0	10.00	31.00	104	80	120				

Sample ID: **109835-003A-MSD** SampType: **MSD** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117491**
Client ID: **ZZZZZZ** Batch ID: **R117491** TestNo: **EPA 300.0** Analysis Date: **1/30/2010** SeqNo: **1865635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	41.515	2.0	10.00	31.00	105	80	120	41.41	0.264	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4

Sample ID: **MB-R117514** SampType: **MBLK** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **PBW** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866343**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	1.0									

Sample ID: **LCS-R117514** SampType: **LCS** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **LCSW** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1.887	1.0	2.000	0	94.4	90	110				

Sample ID: **109828-004A-DUP** SampType: **DUP** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866346**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	1.0						0	0	20	

Sample ID: **109828-004A-MS** SampType: **MS** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866347**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.977	1.0	5.000	0	99.5	80	120				

Sample ID: **109828-004A-MSD** SampType: **MSD** TestCode: **300_W_SO4** Units: **mg/L** Prep Date: RunNo: **117514**
Client ID: **1087-ERB-W** Batch ID: **R117514** TestNo: **EPA 300.0** Analysis Date: **2/1/2010** SeqNo: **1866348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	5.061	1.0	5.000	0	101	80	120	4.977	1.67	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 314_W

Sample ID: **MB-R117507** SampType: **MBLK** TestCode: **314_W** Units: **µg/L** Prep Date: RunNo: **117507**
Client ID: **PBW** Batch ID: **R117507** TestNo: **EPA 314.0** Analysis Date: **1/29/2010** SeqNo: **1866008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	ND	2.0									

Sample ID: **LCS-R117507** SampType: **LCS** TestCode: **314_W** Units: **µg/L** Prep Date: RunNo: **117507**
Client ID: **LCSW** Batch ID: **R117507** TestNo: **EPA 314.0** Analysis Date: **1/29/2010** SeqNo: **1866009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	22.643	2.0	25.00	0	90.6	85	115				

Sample ID: **109828-004A-DUP** SampType: **DUP** TestCode: **314_W** Units: **µg/L** Prep Date: RunNo: **117507**
Client ID: **1087-ERB-W** Batch ID: **R117507** TestNo: **EPA 314.0** Analysis Date: **1/29/2010** SeqNo: **1866011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	ND	2.0						0	0	15	

Sample ID: **109828-004A-MS** SampType: **MS** TestCode: **314_W** Units: **µg/L** Prep Date: RunNo: **117507**
Client ID: **1087-ERB-W** Batch ID: **R117507** TestNo: **EPA 314.0** Analysis Date: **1/29/2010** SeqNo: **1866012**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	9.474	2.0	10.00	0	94.7	80	120				

Sample ID: **109828-004A-MSD** SampType: **MSD** TestCode: **314_W** Units: **µg/L** Prep Date: RunNo: **117507**
Client ID: **1087-ERB-W** Batch ID: **R117507** TestNo: **EPA 314.0** Analysis Date: **1/29/2010** SeqNo: **1866013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	10.082	2.0	10.00	0	101	80	120	9.474	6.22	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 335.2_4500CNE_W

Sample ID: **109855-001B-MS** SampType: **MS** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117543**
Client ID: **ZZZZZZ** Batch ID: **61528** TestNo: **SM4500-CN E** Analysis Date: **2/1/2010** SeqNo: **1866836**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.397	0.010	0.4000	0.01200	96.2	80	120				

Sample ID: **109855-001B-MSD** SampType: **MSD** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117543**
Client ID: **ZZZZZZ** Batch ID: **61528** TestNo: **SM4500-CN E** Analysis Date: **2/1/2010** SeqNo: **1866837**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.395	0.010	0.4000	0.01200	95.8	80	120	0.3970	0.505	20	

Sample ID: **LCS-61528** SampType: **LCS** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117543**
Client ID: **LCSW** Batch ID: **61528** TestNo: **SM4500-CN E** Analysis Date: **2/1/2010** SeqNo: **1866839**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.398	0.010	0.4000	0	99.5	80	120				

Sample ID: **MB-61528** SampType: **MBLK** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **1/29/2010** RunNo: **117543**
Client ID: **PBW** Batch ID: **61528** TestNo: **SM4500-CN E** Analysis Date: **2/1/2010** SeqNo: **1866840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	0.010									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 335.2_4500CNE_W

Sample ID: **109828-001K-DUP** SampType: **DUP** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117671**
Client ID: **1087-201-W** Batch ID: **61616** TestNo: **SM4500-CN E** Analysis Date: **2/4/2010** SeqNo: **1869738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	0.010						0	0	30	

Sample ID: **109855-001B-MS** SampType: **MS** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117671**
Client ID: **ZZZZZZ** Batch ID: **61616** TestNo: **SM4500-CN E** Analysis Date: **2/4/2010** SeqNo: **1869740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.398	0.010	0.4000	0.003000	98.8	80	120				

Sample ID: **109855-001B-MSD** SampType: **MSD** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117671**
Client ID: **ZZZZZZ** Batch ID: **61616** TestNo: **SM4500-CN E** Analysis Date: **2/4/2010** SeqNo: **1869741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.390	0.010	0.4000	0.003000	96.8	80	120	0.3980	2.03	20	

Sample ID: **LCS-61616** SampType: **LCS** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117671**
Client ID: **LCSW** Batch ID: **61616** TestNo: **SM4500-CN E** Analysis Date: **2/4/2010** SeqNo: **1869745**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.396	0.010	0.4000	0	99.0	80	120				

Sample ID: **MB-61616** SampType: **MBLK** TestCode: **335.2_4500C** Units: **mg/L** Prep Date: **2/4/2010** RunNo: **117671**
Client ID: **PBW** Batch ID: **61616** TestNo: **SM4500-CN E** Analysis Date: **2/4/2010** SeqNo: **1869746**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	0.010									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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ANALYTICAL QC SUMMARY REPORT

TestCode: 376.2_4500S2_WT

Sample ID: **109828-004J_DUP** SampType: **DUP** TestCode: **376.2_4500S2** Units: **mg/L** Prep Date: RunNo: **117608**
Client ID: **1087-ERB-W** Batch ID: **R117608** TestNo: **SM4500-S= D** Analysis Date: **2/2/2010** SeqNo: **1868024**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	ND	0.010						0	0	30	

Sample ID: **109828-004J-MS** SampType: **MS** TestCode: **376.2_4500S2** Units: **mg/L** Prep Date: RunNo: **117608**
Client ID: **1087-ERB-W** Batch ID: **R117608** TestNo: **SM4500-S= D** Analysis Date: **2/2/2010** SeqNo: **1868025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.101	0.010	0.1000	0	101	70	120				

Sample ID: **109828-004J-MSD** SampType: **MSD** TestCode: **376.2_4500S2** Units: **mg/L** Prep Date: RunNo: **117608**
Client ID: **1087-ERB-W** Batch ID: **R117608** TestNo: **SM4500-S= D** Analysis Date: **2/2/2010** SeqNo: **1868026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.103	0.010	0.1000	0	103	70	120	0.1010	1.77	20	

Sample ID: **LCS-R117608** SampType: **LCS** TestCode: **376.2_4500S2** Units: **mg/L** Prep Date: RunNo: **117608**
Client ID: **LCSW** Batch ID: **R117608** TestNo: **SM4500-S= D** Analysis Date: **2/2/2010** SeqNo: **1868028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.100	0.010	0.1000	0	100	80	120				

Sample ID: **MB-R117608** SampType: **MBLK** TestCode: **376.2_4500S2** Units: **mg/L** Prep Date: RunNo: **117608**
Client ID: **PBW** Batch ID: **R117608** TestNo: **SM4500-S= D** Analysis Date: **2/2/2010** SeqNo: **1868029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	ND	0.010									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 608_W_FULL

Sample ID: **MB-61438** SampType: **MBLK** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117503**
Client ID: **PBW** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1865944**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.50									
Aroclor 1221	ND	1.0									
Aroclor 1232	ND	0.50									
Aroclor 1242	ND	0.50									
Aroclor 1248	ND	0.50									
Aroclor 1254	ND	0.50									
Aroclor 1260	ND	0.50									
Surr: Decachlorobiphenyl	0.551		0.5000		110	29	137				
Surr: Tetrachloro-m-xylene	0.449		0.5000		89.7	47	117				

Sample ID: **LCSA-61438** SampType: **LCS** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117503**
Client ID: **LCSW** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1865945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.262	0.50	5.000	0	85.2	59	113				
Aroclor 1260	4.857	0.50	5.000	0	97.1	60	114				
Surr: Decachlorobiphenyl	0.527		0.5000		105	29	137				
Surr: Tetrachloro-m-xylene	0.421		0.5000		84.2	47	117				

Sample ID: **MB-61438MSA** SampType: **MS** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117503**
Client ID: **ZZZZZZ** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1865946**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	3.587	0.50	5.000	0	71.7	59	113				
Aroclor 1260	4.040	0.50	5.000	0	80.8	60	114				
Surr: Decachlorobiphenyl	0.441		0.5000		88.1	29	137				
Surr: Tetrachloro-m-xylene	0.350		0.5000		70.1	47	117				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 608_W_FULL

Sample ID: **MB-61438MSDA** SampType: **MSD** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117503**
Client ID: **ZZZZZZ** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1865947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	3.548	0.50	5.000	0	71.0	59	113	3.587	1.09	20	
Aroclor 1260	4.008	0.50	5.000	0	80.2	60	114	4.040	0.790	20	
Surr: Decachlorobiphenyl	0.435		0.5000		87.0	29	137		0	0	
Surr: Tetrachloro-m-xylene	0.348		0.5000		69.6	47	117		0	0	

Sample ID: **MB-61438** SampType: **MBLK** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117447**
Client ID: **PBW** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1866715**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	0.050									
4,4´-DDE	ND	0.050									
4,4´-DDT	ND	0.050									
Aldrin	ND	0.025									
alpha-BHC	ND	0.025									
beta-BHC	ND	0.025									
Chlordane	ND	0.25									
delta-BHC	ND	0.025									
Dieldrin	ND	0.050									
Endosulfan I	ND	0.025									
Endosulfan II	ND	0.050									
Endosulfan sulfate	ND	0.050									
Endrin	ND	0.050									
Endrin aldehyde	ND	0.050									
gamma-BHC	ND	0.025									
Heptachlor	ND	0.025									
Heptachlor epoxide	ND	0.025									
Toxaphene	ND	2.5									
Surr: Decachlorobiphenyl	0.480		0.5000		96.1	29	137				
Surr: Tetrachloro-m-xylene	0.437		0.5000		87.3	47	117				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 608_W_FULL

Sample ID: **LCS-61438** SampType: **LCS** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117447**
Client ID: **LCSW** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1866716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	0.467	0.025	0.5000	0	93.5	63	115				
Dieldrin	0.463	0.050	0.5000	0	92.6	62	111				
Endrin	0.539	0.050	0.5000	0	108	45	137				
gamma-BHC	0.493	0.025	0.5000	0	98.5	62	115				
Heptachlor	0.469	0.025	0.5000	0	93.7	60	113				
Surr: Decachlorobiphenyl	0.552		0.5000		110	29	137				
Surr: Tetrachloro-m-xylene	0.500		0.5000		99.9	47	117				

Sample ID: **MB-61438MS** SampType: **MS** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117447**
Client ID: **ZZZZZZ** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1866717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	0.437	0.050	0.5000	0	87.4	53	113				
Aldrin	0.487	0.025	0.5000	0	97.4	63	115				
Dieldrin	0.480	0.050	0.5000	0	95.9	62	111				
Endrin	0.549	0.050	0.5000	0	110	45	137				
gamma-BHC	0.511	0.025	0.5000	0	102	62	115				
Heptachlor	0.486	0.025	0.5000	0	97.3	60	113				
Surr: Decachlorobiphenyl	0.563		0.5000		113	29	137				
Surr: Tetrachloro-m-xylene	0.507		0.5000		101	47	117				

Sample ID: **MB-61438MSD** SampType: **MSD** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117447**
Client ID: **ZZZZZZ** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1866718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	0.428	0.050	0.5000	0	85.6	53	113	0.4369	2.07	20	
Aldrin	0.479	0.025	0.5000	0	95.7	63	115	0.4871	1.75	20	
Dieldrin	0.473	0.050	0.5000	0	94.5	62	111	0.4797	1.47	20	
Endrin	0.543	0.050	0.5000	0	109	45	137	0.5490	1.18	20	
gamma-BHC	0.503	0.025	0.5000	0	101	62	115	0.5105	1.47	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Work Order: 109828
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ANALYTICAL QC SUMMARY REPORT

TestCode: 608_W_FULL

Sample ID: **MB-61438MSD** SampType: **MSD** TestCode: **608_W_FULL** Units: **µg/L** Prep Date: **1/28/2010** RunNo: **117447**
Client ID: **ZZZZZZ** Batch ID: **61438** TestNo: **EPA 608** **EPA 3510C** Analysis Date: **1/28/2010** SeqNo: **1866718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptachlor	0.477	0.025	0.5000	0	95.4	60	113	0.4865	1.95	20	
Surr: Decachlorobiphenyl	0.559		0.5000		112	29	137		0	0	
Surr: Tetrachloro-m-xylene	0.499		0.5000		99.8	47	117		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 624LL_WP

Sample ID: **A100128LCS1** SampType: **LCS** TestCode: **624LL_WP** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **LCSW** Batch ID: **A10VW023** TestNo: **EPA 624** Analysis Date: **1/28/2010** SeqNo: **1865988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.590	0.50	20.00	0	93.0	70	130				
Benzene	42.530	0.50	40.00	0	106	70	130				
Chlorobenzene	21.150	0.50	20.00	0	106	70	130				
Toluene	43.720	0.50	40.00	0	109	70	130				
Trichloroethene	20.470	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	20.690		25.00		82.8	70	130				
Surr: 4-Bromofluorobenzene	26.140		25.00		105	70	130				
Surr: Dibromofluoromethane	24.130		25.00		96.5	70	130				
Surr: Toluene-d8	28.300		25.00		113	70	130				

Sample ID: **A100128MB2MS** SampType: **MS** TestCode: **624LL_WP** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **ZZZZZZ** Batch ID: **A10VW023** TestNo: **EPA 624** Analysis Date: **1/28/2010** SeqNo: **1865989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.450	0.50	20.00	0	87.2	70	130				
Benzene	41.740	0.50	40.00	0	104	70	130				
Chlorobenzene	21.340	0.50	20.00	0	107	70	130				
Toluene	42.950	0.50	40.00	0	107	70	130				
Trichloroethene	20.050	0.50	20.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	20.860		25.00		83.4	70	130				
Surr: 4-Bromofluorobenzene	26.260		25.00		105	70	130				
Surr: Dibromofluoromethane	23.740		25.00		95.0	70	130				
Surr: Toluene-d8	27.950		25.00		112	70	130				

Sample ID: **A100128MB2MSD** SampType: **MSD** TestCode: **624LL_WP** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **ZZZZZZ** Batch ID: **A10VW023** TestNo: **EPA 624** Analysis Date: **1/28/2010** SeqNo: **1865990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.570	0.50	20.00	0	87.9	70	130	17.45	0.685	20	
Benzene	42.580	0.50	40.00	0	106	70	130	41.74	1.99	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 624LL_WP

Sample ID: **A100128MB2MSD** SampType: **MSD** TestCode: **624LL_WP** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **ZZZZZZ** Batch ID: **A10VW023** TestNo: **EPA 624** Analysis Date: **1/28/2010** SeqNo: **1865990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	21.360	0.50	20.00	0	107	70	130	21.34	0.0937	20	
Toluene	43.390	0.50	40.00	0	108	70	130	42.95	1.02	20	
Trichloroethene	19.870	0.50	20.00	0	99.4	70	130	20.05	0.902	20	
Surr: 1,2-Dichloroethane-d4	21.290		25.00		85.2	70	130		0	20	
Surr: 4-Bromofluorobenzene	26.160		25.00		105	70	130		0	20	
Surr: Dibromofluoromethane	24.790		25.00		99.2	70	130		0	20	
Surr: Toluene-d8	28.890		25.00		116	70	130		0	20	

Sample ID: **A100128MB2** SampType: **MBLK** TestCode: **624LL_WP** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **PBW** Batch ID: **A10VW023** TestNo: **EPA 624** Analysis Date: **1/28/2010** SeqNo: **1865991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2-Chloroethyl vinyl ether	ND	0.50									
Acrolein	ND	10									
Acrylonitrile	ND	10									
Benzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 624LL_WP

Sample ID: **A100128MB2** SampType: **MBLK** TestCode: **624LL_WP** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **PBW** Batch ID: **A10VW023** TestNo: **EPA 624** Analysis Date: **1/28/2010** SeqNo: **1865991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Methylene chloride	ND	1.0									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
trans-1,3-Dichloropropene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	20.900		25.00		83.6	70	130				
Surr: 4-Bromofluorobenzene	25.920		25.00		104	70	130				
Surr: Dibromofluoromethane	24.600		25.00		98.4	70	130				
Surr: Toluene-d8	28.410		25.00		114	70	130				

Sample ID: **109828-002L** SampType: **DUP** TestCode: **624LL_WP** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **1087-201-WD** Batch ID: **A10VW023** TestNo: **EPA 624** Analysis Date: **1/28/2010** SeqNo: **1865995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.50						0	0	20	
1,1,2,2-Tetrachloroethane	ND	0.50						0	0	20	
1,1,2-Trichloroethane	ND	0.50						0	0	20	
1,1-Dichloroethane	ND	0.50						0	0	20	
1,1-Dichloroethene	ND	0.50						0	0	20	
1,2-Dichlorobenzene	ND	0.50						0	0	20	
1,2-Dichloroethane	ND	0.50						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 624LL_WP

Sample ID: **109828-002L** SampType: **DUP** TestCode: **624LL_WP** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **1087-201-WD** Batch ID: **A10VW023** TestNo: **EPA 624** Analysis Date: **1/28/2010** SeqNo: **1865995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.50						0	0	20	
1,3-Dichlorobenzene	ND	0.50						0	0	20	
1,4-Dichlorobenzene	ND	0.50						0	0	20	
2-Chloroethyl vinyl ether	ND	0.50						0	0	20	
Acrolein	ND	10						0	0	0	
Acrylonitrile	ND	10						0	0	0	
Benzene	0.790	0.50						0.8100	2.50	20	
Bromodichloromethane	ND	0.50						0	0	20	
Bromoform	ND	0.50						0	0	20	
Bromomethane	ND	0.50						0	0	20	
Carbon tetrachloride	ND	0.50						0	0	20	
Chlorobenzene	ND	0.50						0	0	20	
Chloroethane	ND	0.50						0	0	20	
Chloroform	ND	0.50						0	0	20	
Chloromethane	ND	0.50						0	0	20	
cis-1,3-Dichloropropene	ND	0.50						0	0	20	
Dibromochloromethane	ND	0.50						0	0	20	
Ethylbenzene	ND	0.50						0	0	20	
Methylene chloride	ND	1.0						0	0	20	
Tetrachloroethene	ND	0.50						0	0	20	
Toluene	0.510	0.50						0.5300	3.85	20	
trans-1,2-Dichloroethene	ND	0.50						0	0	20	
trans-1,3-Dichloropropene	ND	0.50						0	0	20	
Trichloroethene	ND	0.50						0	0	20	
Trichlorofluoromethane	ND	0.50						0	0	20	
Vinyl chloride	ND	0.50						0	0	20	
Surr: 1,2-Dichloroethane-d4	21.300		25.00		85.2	70	130		0	0	
Surr: 4-Bromofluorobenzene	26.210		25.00		105	70	130		0	0	
Surr: Dibromofluoromethane	24.440		25.00		97.8	70	130		0	0	
Surr: Toluene-d8	28.470		25.00		114	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_W_FULL

Sample ID: **MB-61508**	SampType: **MBLK**	TestCode: **625_W_FULL**	Units: **µg/L**		Prep Date: **2/1/2010**				RunNo: **117565**			
Client ID: **PBW**	Batch ID: **61508**	TestNo: **EPA 625**	**EPA 3510C**		Analysis Date: **2/1/2010**				SeqNo: **1867168**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	10									
1,2-Dichlorobenzene	ND	10									
1,2-Diphenylhydrazine	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
2,4,6-Trichlorophenol	ND	10									
2,4-Dichlorophenol	ND	10									
2,4-Dimethylphenol	ND	10									
2,4-Dinitrophenol	ND	50									
2,4-Dinitrotoluene	ND	10									
2,6-Dinitrotoluene	ND	10									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
2-Nitrophenol	ND	10									
3,3´-Dichlorobenzidine	ND	20									
4,6-Dinitro-2-methylphenol	ND	50									
4-Bromophenyl-phenylether	ND	10									
4-Chloro-3-methylphenol	ND	50									
4-Chlorophenyl-phenylether	ND	10									
4-Nitrophenol	ND	50									
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Anthracene	ND	10									
Benzidine (M)	ND	50									
Benzo(a)anthracene	ND	10									
Benzo(a)pyrene	ND	10									
Benzo(b)fluoranthene	ND	10									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Bis(2-chloroethoxy)methane	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_W_FULL

Sample ID: **MB-61508** SampType: **MBLK** TestCode: **625_W_FULL** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **PBW** Batch ID: **61508** TestNo: **EPA 625** **EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroethyl)ether	ND	10									
Bis(2-chloroisopropyl)ether	ND	10									
Bis(2-ethylhexyl)phthalate	ND	10									
Butylbenzylphthalate	ND	10									
Chrysene	ND	10									
Di-n-butylphthalate	ND	10									
Di-n-octylphthalate	ND	10									
Dibenz(a,h)anthracene	ND	10									
Diethylphthalate	ND	10									
Dimethylphthalate	ND	10									
Fluoranthene	ND	10									
Fluorene	ND	10									
Hexachlorobenzene	ND	10									
Hexachlorobutadiene	ND	20									
Hexachlorocyclopentadiene	ND	10									
Hexachloroethane	ND	10									
Indeno(1,2,3-cd)pyrene	ND	10									
Isophorone	ND	10									
N-Nitrosodi-n-propylamine	ND	10									
N-Nitrosodimethylamine	3.020	50									J
N-Nitrosodiphenylamine	ND	10									
Naphthalene	ND	10									
Nitrobenzene	ND	10									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	10									
Surr: 1,2-Dichlorobenzene-d4	69.310		100.0		69.3	42	98				
Surr: 2,4,6-Tribromophenol	78.080		100.0		78.1	60	128				
Surr: 2-Chlorophenol-d4	55.810		100.0		55.8	43	102				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_W_FULL

Sample ID: **MB-61508** SampType: **MBLK** TestCode: **625_W_FULL** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **PBW** Batch ID: **61508** TestNo: **EPA 625** **EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	76.200		100.0		76.2	50	108				
Surr: 2-Fluorophenol	34.050		100.0		34.0	22	69				
Surr: 4-Terphenyl-d14	103.350		100.0		103	66	130				
Surr: Nitrobenzene-d5	73.840		100.0		73.8	47	117				
Surr: Phenol-d5	26.740		100.0		26.7	16	50				

Sample ID: **LCS-61508** SampType: **LCS** TestCode: **625_W_FULL** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **LCSW** Batch ID: **61508** TestNo: **EPA 625** **EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	77.340	10	100.0	0	77.3	54	110				
1,4-Dichlorobenzene	74.090	10	100.0	0	74.1	48	103				
2,4-Dinitrotoluene	101.490	10	100.0	0	101	69	136				
2-Chlorophenol	62.710	10	100.0	0	62.7	53	100				
4-Chloro-3-methylphenol	78.430	50	100.0	0	78.4	70	124				
4-Nitrophenol	48.140	50	100.0	0	48.1	32	69				J
Acenaphthene	94.180	10	100.0	0	94.2	64	118				
N-Nitrosodi-n-propylamine	96.960	10	100.0	0	97.0	62	130				
Pentachlorophenol	96.700	50	100.0	0	96.7	64	130				
Phenol	30.620	10	100.0	0	30.6	25	50				
Pyrene	96.630	10	100.0	0	96.6	66	123				
Surr: 1,2-Dichlorobenzene-d4	71.550		100.0		71.6	42	98				
Surr: 2,4,6-Tribromophenol	82.080		100.0		82.1	60	128				
Surr: 2-Chlorophenol-d4	57.460		100.0		57.5	43	102				
Surr: 2-Fluorobiphenyl	81.100		100.0		81.1	50	108				
Surr: 2-Fluorophenol	35.300		100.0		35.3	22	69				
Surr: 4-Terphenyl-d14	86.150		100.0		86.2	66	130				
Surr: Nitrobenzene-d5	84.780		100.0		84.8	47	117				
Surr: Phenol-d5	28.270		100.0		28.3	16	50				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 625_W_FULL

Sample ID: **MB-61508MS** SampType: **MS** TestCode: **625_W_FULL** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **ZZZZZZ** Batch ID: **61508** TestNo: **EPA 625** **EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867170**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	71.160	10	100.0	0	71.2	54	110				
1,4-Dichlorobenzene	69.700	10	100.0	0	69.7	48	103				
2,4-Dinitrotoluene	96.160	10	100.0	0	96.2	69	136				
2-Chlorophenol	60.220	10	100.0	0	60.2	53	100				
4-Chloro-3-methylphenol	77.020	50	100.0	0	77.0	70	124				
4-Nitrophenol	45.800	50	100.0	0	45.8	32	69				J
Acenaphthene	88.740	10	100.0	0	88.7	64	118				
N-Nitrosodi-n-propylamine	89.930	10	100.0	0	89.9	62	130				
Pentachlorophenol	94.550	50	100.0	0	94.6	64	130				
Phenol	28.570	10	100.0	0	28.6	25	50				
Pyrene	88.790	10	100.0	0	88.8	66	123				
Surr: 1,2-Dichlorobenzene-d4	68.470		100.0		68.5	42	98				
Surr: 2,4,6-Tribromophenol	88.120		100.0		88.1	60	128				
Surr: 2-Chlorophenol-d4	57.390		100.0		57.4	43	102				
Surr: 2-Fluorobiphenyl	79.340		100.0		79.3	50	108				
Surr: 2-Fluorophenol	34.060		100.0		34.1	22	69				
Surr: 4-Terphenyl-d14	86.010		100.0		86.0	66	130				
Surr: Nitrobenzene-d5	79.970		100.0		80.0	47	117				
Surr: Phenol-d5	26.720		100.0		26.7	16	50				

Sample ID: **MB-61508MSD** SampType: **MSD** TestCode: **625_W_FULL** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **ZZZZZZ** Batch ID: **61508** TestNo: **EPA 625** **EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	80.630	10	100.0	0	80.6	54	110	71.16	12.5	20	
1,4-Dichlorobenzene	78.030	10	100.0	0	78.0	48	103	69.70	11.3	20	
2,4-Dinitrotoluene	104.960	10	100.0	0	105	69	136	96.16	8.75	20	
2-Chlorophenol	67.000	10	100.0	0	67.0	53	100	60.22	10.7	20	
4-Chloro-3-methylphenol	81.550	50	100.0	0	81.6	70	124	77.02	5.71	20	
4-Nitrophenol	50.090	50	100.0	0	50.1	32	69	45.80	8.95	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 625_W_FULL

Sample ID: **MB-61508MSD** SampType: **MSD** TestCode: **625_W_FULL** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **ZZZZZZ** Batch ID: **61508** TestNo: **EPA 625** **EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	95.540	10	100.0	0	95.5	64	118	88.74	7.38	20	
N-Nitrosodi-n-propylamine	99.360	10	100.0	0	99.4	62	130	89.93	9.96	20	
Pentachlorophenol	99.470	50	100.0	0	99.5	64	130	94.55	5.07	20	
Phenol	32.910	10	100.0	0	32.9	25	50	28.57	14.1	20	
Pyrene	96.950	10	100.0	0	97.0	66	123	88.79	8.79	20	
Surr: 1,2-Dichlorobenzene-d4	75.700		100.0		75.7	42	98		0	0	
Surr: 2,4,6-Tribromophenol	85.460		100.0		85.5	60	128		0	0	
Surr: 2-Chlorophenol-d4	61.580		100.0		61.6	43	102		0	0	
Surr: 2-Fluorobiphenyl	83.710		100.0		83.7	50	108		0	0	
Surr: 2-Fluorophenol	38.100		100.0		38.1	22	69		0	0	
Surr: 4-Terphenyl-d14	84.260		100.0		84.3	66	130		0	0	
Surr: Nitrobenzene-d5	87.870		100.0		87.9	47	117		0	0	
Surr: Phenol-d5	30.250		100.0		30.2	16	50		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 7196_W

Sample ID: **109828-001H-DUP** SampType: **DUP** TestCode: **7196_W** Units: **mg/L** Prep Date: **1/27/2010** RunNo: **117369**
Client ID: **1087-201-W** Batch ID: **R117369** TestNo: **EPA 7196A** Analysis Date: **1/27/2010** SeqNo: **1863917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	0.010						0	0	20	

Sample ID: **109828-001H-MS** SampType: **MS** TestCode: **7196_W** Units: **mg/L** Prep Date: **1/27/2010** RunNo: **117369**
Client ID: **1087-201-W** Batch ID: **R117369** TestNo: **EPA 7196A** Analysis Date: **1/27/2010** SeqNo: **1863918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	0.507	0.010	0.5000	0	101	85	115				

Sample ID: **109828-001H-MSD** SampType: **MSD** TestCode: **7196_W** Units: **mg/L** Prep Date: **1/27/2010** RunNo: **117369**
Client ID: **1087-201-W** Batch ID: **R117369** TestNo: **EPA 7196A** Analysis Date: **1/27/2010** SeqNo: **1863919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	0.507	0.010	0.5000	0	101	85	115	0.5070	0	20	

Sample ID: **LCS-R117369** SampType: **LCS** TestCode: **7196_W** Units: **mg/L** Prep Date: **1/27/2010** RunNo: **117369**
Client ID: **LCSW** Batch ID: **R117369** TestNo: **EPA 7196A** Analysis Date: **1/27/2010** SeqNo: **1863923**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	0.506	0.010	0.5000	0	101	85	115				

Sample ID: **MB-R117369** SampType: **MBLK** TestCode: **7196_W** Units: **mg/L** Prep Date: **1/27/2010** RunNo: **117369**
Client ID: **PBW** Batch ID: **R117369** TestNo: **EPA 7196A** Analysis Date: **1/27/2010** SeqNo: **1863924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	0.010									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DSL LL

Sample ID: **MB-61446** SampType: **MBLK** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **PBW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
Surr: p-Terphenyl	0.066		0.08000		82.8	35	131				

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.050	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.050	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.050	1.000	0	84.5	42	118				
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **I100127LCS1** SampType: **LCS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **LCSW** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1864345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.897	0.050	1.000	0	89.7	69	125				
Surr: Bromofluorobenzene (FID)	98.027		100.0		98.0	71	130				

Sample ID: **I100127MB2MS** SampType: **MS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **ZZZZZZ** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1864346**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.938	0.050	1.000	0	93.8	69	125				
Surr: Bromofluorobenzene (FID)	98.284		100.0		98.3	71	130				

Sample ID: **I100127MB2MSD** SampType: **MSD** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **ZZZZZZ** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1864347**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.889	0.050	1.000	0	88.9	69	125	0.9380	5.36	20	
Surr: Bromofluorobenzene (FID)	95.833		100.0		95.8	71	130		0	0	

Sample ID: **I100127MB2** SampType: **MBLK** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **PBW** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1864348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	88.244		100.0		88.2	71	130				

Sample ID: **109828-004MDUP** SampType: **DUP** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **1087-ERB-W** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1864350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **109828-004MDUP** SampType: **DUP** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **1087-ERB-W** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1864350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	88.670		100.0		88.7	71	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A100128LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **LCSW** Batch ID: **A10VW023** TestNo: **EPA 8260B** Analysis Date: **1/28/2010** SeqNo: **1864773**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.590	0.50	20.00	0	93.0	70	130				
Benzene	42.530	0.50	40.00	0	106	70	130				
Chlorobenzene	21.150	0.50	20.00	0	106	70	130				
MTBE	19.070	0.50	20.00	0	95.4	70	130				
Toluene	43.720	0.50	40.00	0	109	70	130				
Trichloroethene	20.470	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	20.690		25.00		82.8	70	130				
Surr: 4-Bromofluorobenzene	26.140		25.00		105	70	130				
Surr: Dibromofluoromethane	24.130		25.00		96.5	70	130				
Surr: Toluene-d8	28.300		25.00		113	70	130				

Sample ID: **A100128MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **ZZZZZZ** Batch ID: **A10VW023** TestNo: **EPA 8260B** Analysis Date: **1/28/2010** SeqNo: **1864774**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	20.860		25.00		83.4	70	130				
Surr: 4-Bromofluorobenzene	26.260		25.00		105	70	130				
Surr: Dibromofluoromethane	23.740		25.00		95.0	70	130				
Surr: Toluene-d8	27.950		25.00		112	70	130				

Sample ID: **A100128MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **ZZZZZZ** Batch ID: **A10VW023** TestNo: **EPA 8260B** Analysis Date: **1/28/2010** SeqNo: **1864775**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	21.290		25.00		85.2	70	130		0	20	
Surr: 4-Bromofluorobenzene	26.160		25.00		105	70	130		0	20	
Surr: Dibromofluoromethane	24.790		25.00		99.2	70	130		0	20	
Surr: Toluene-d8	28.890		25.00		116	70	130		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A100128MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **PBW** Batch ID: **A10VW023** TestNo: **EPA 8260B** Analysis Date: **1/28/2010** SeqNo: **1864776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	ND	10									
Acetone	ND	10									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Surr: 1,2-Dichloroethane-d4	20.900		25.00		83.6	70	130				
Surr: 4-Bromofluorobenzene	25.920		25.00		104	70	130				
Surr: Dibromofluoromethane	24.600		25.00		98.4	70	130				
Surr: Toluene-d8	28.410		25.00		114	70	130				

Sample ID: **109828-002L** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **1087-201-WD** Batch ID: **A10VW023** TestNo: **EPA 8260B** Analysis Date: **1/28/2010** SeqNo: **1866135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50						0	0	20	
1,1,1-Trichloroethane	ND	0.50						0	0	20	
1,1,2,2-Tetrachloroethane	ND	0.50						0	0	20	
1,1,2-Trichloroethane	ND	0.50						0	0	20	
1,1-Dichloroethane	ND	0.50						0	0	20	
1,1-Dichloroethene	ND	0.50						0	0	20	
1,1-Dichloropropene	ND	0.50						0	0	20	
1,2,3-Trichlorobenzene	ND	0.50						0	0	20	
1,2,3-Trichloropropane	ND	0.50						0	0	20	
1,2,4-Trichlorobenzene	ND	0.50						0	0	20	
1,2,4-Trimethylbenzene	ND	0.50						0	0	20	
1,2-Dibromo-3-chloropropane	ND	0.50						0	0	20	
1,2-Dibromoethane	ND	0.50						0	0	20	
1,2-Dichlorobenzene	ND	0.50						0	0	20	
1,2-Dichloroethane	ND	0.50						0	0	20	
1,2-Dichloropropane	ND	0.50						0	0	20	
1,3,5-Trimethylbenzene	ND	0.50						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **109828-002L** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **1087-201-WD** Batch ID: **A10VW023** TestNo: **EPA 8260B** Analysis Date: **1/28/2010** SeqNo: **1866135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50						0	0	20	
1,3-Dichloropropane	ND	0.50						0	0	20	
1,4-Dichlorobenzene	ND	0.50						0	0	20	
2,2-Dichloropropane	ND	0.50						0	0	20	
2-Butanone	ND	10						0	0	20	
2-Chloroethyl vinyl ether	ND	0.50						0	0	20	
2-Chlorotoluene	ND	0.50						0	0	20	
2-Hexanone	ND	10						0	0	20	
4-Chlorotoluene	ND	0.50						0	0	20	
4-Isopropyltoluene	ND	0.50						0	0	20	
4-Methyl-2-pentanone	ND	10						0	0	20	
Acetone	ND	10						0	0	20	
Acrolein	ND	10						0	0	20	
Acrylonitrile	ND	10						0	0	20	
Benzene	0.790	0.50						0.8100	2.50	20	
Bromobenzene	ND	0.50						0	0	20	
Bromochloromethane	ND	0.50						0	0	20	
Bromodichloromethane	ND	0.50						0	0	20	
Bromoform	ND	0.50						0	0	20	
Bromomethane	ND	0.50						0	0	20	
Carbon disulfide	ND	2.0						0	0	20	
Carbon tetrachloride	ND	0.50						0	0	20	
Chlorobenzene	ND	0.50						0	0	20	
Chloroethane	ND	0.50						0	0	20	
Chloroform	ND	0.50						0	0	20	
Chloromethane	ND	0.50						0	0	20	
cis-1,2-Dichloroethene	ND	0.50						0	0	20	
cis-1,3-Dichloropropene	ND	0.50						0	0	20	
Cyclohexanone	ND	50						0	0	20	
Di-isopropyl ether	ND	0.50						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **109828-002L** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **1087-201-WD** Batch ID: **A10VW023** TestNo: **EPA 8260B** Analysis Date: **1/28/2010** SeqNo: **1866135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	0.50						0	0	20	
Dibromomethane	ND	0.50						0	0	20	
Dichlorodifluoromethane	ND	0.50						0	0	20	
Ethyl Acetate	ND	10						0	0	20	
Ethyl Ether	ND	10						0	0	20	
Ethyl tert-butyl ether	ND	0.50						0	0	20	
Ethylbenzene	ND	0.50						0	0	20	
Freon-113	ND	0.50						0	0	20	
Hexachlorobutadiene	ND	0.50						0	0	20	
Iodomethane	ND	0.50						0	0	20	
Isopropylbenzene	ND	0.50						0	0	20	
m,p-Xylene	ND	1.0						0	0	20	
Methylene chloride	ND	1.0						0	0	20	
MTBE	ND	0.50						0	0	20	
n-Butylbenzene	ND	0.50						0	0	20	
n-Propylbenzene	ND	0.50						0	0	20	
Naphthalene	ND	0.50						0	0	20	
o-Xylene	ND	0.50						0	0	20	
sec-Butylbenzene	ND	0.50						0	0	20	
Styrene	ND	0.50						0	0	20	
Tert-amyl methyl ether	ND	0.50						0	0	20	
Tert-Butanol	ND	10						0	0	20	
tert-Butylbenzene	ND	0.50						0	0	20	
Tetrachloroethene	ND	0.50						0	0	20	
Toluene	0.510	0.50						0.5300	3.85	20	
trans-1,2-Dichloroethene	ND	0.50						0	0	20	
trans-1,3-Dichloropropene	ND	0.50						0	0	20	
Trichloroethene	ND	0.50						0	0	20	
Trichlorofluoromethane	ND	0.50						0	0	20	
Vinyl acetate	ND	10						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **109828-002L** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **117442**
Client ID: **1087-201-WD** Batch ID: **A10VW023** TestNo: **EPA 8260B** Analysis Date: **1/28/2010** SeqNo: **1866135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.50						0	0	20	
Xylenes, Total	ND	1.5						0	0	20	
Surr: 1,2-Dichloroethane-d4	21.300		25.00		85.2	70	130		0	20	
Surr: 4-Bromofluorobenzene	26.210		25.00		105	70	130		0	20	
Surr: Dibromofluoromethane	24.440		25.00		97.8	70	130		0	20	
Surr: Toluene-d8	28.470		25.00		114	70	130		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_Dioxane_W

Sample ID: **MB-61508** SampType: **MBLK** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **PBW** Batch ID: **61508** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	2.0									
Surr: 1,2-Dichlorobenzene-d4	71.710		100.0		71.7	42	98				
Surr: 2,4,6-Tribromophenol	78.850		100.0		78.8	60	128				
Surr: 2-Chlorophenol-d4	58.550		100.0		58.6	43	102				
Surr: 2-Fluorobiphenyl	81.420		100.0		81.4	50	108				
Surr: 2-Fluorophenol	36.030		100.0		36.0	22	69				
Surr: 4-Terphenyl-d14	104.670		100.0		105	66	130				
Surr: Nitrobenzene-d5	92.510		100.0		92.5	47	117				
Surr: Phenol-d5	27.650		100.0		27.6	16	50				

Sample ID: **LCS-61508** SampType: **LCS** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **LCSW** Batch ID: **61508** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867178**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	110.460	2.0	100.0	0	110	70	130				
Surr: 1,2-Dichlorobenzene-d4	74.030		100.0		74.0	42	98				
Surr: 2,4,6-Tribromophenol	82.900		100.0		82.9	60	128				
Surr: 2-Chlorophenol-d4	60.280		100.0		60.3	43	102				
Surr: 2-Fluorobiphenyl	86.660		100.0		86.7	50	108				
Surr: 2-Fluorophenol	37.360		100.0		37.4	22	69				
Surr: 4-Terphenyl-d14	87.250		100.0		87.3	66	130				
Surr: Nitrobenzene-d5	106.210		100.0		106	47	117				
Surr: Phenol-d5	29.240		100.0		29.2	16	50				

Sample ID: **MB-61508MS** SampType: **MS** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **ZZZZZZ** Batch ID: **61508** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	113.130	2.0	100.0	0	113	70	130				
Surr: 1,2-Dichlorobenzene-d4	70.850		100.0		70.8	42	98				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_Dioxane_W

Sample ID: **MB-61508MS** SampType: **MS** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **ZZZZZZ** Batch ID: **61508** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	88.990		100.0		89.0	60	128				
Surr: 2-Chlorophenol-d4	60.210		100.0		60.2	43	102				
Surr: 2-Fluorobiphenyl	84.780		100.0		84.8	50	108				
Surr: 2-Fluorophenol	36.040		100.0		36.0	22	69				
Surr: 4-Terphenyl-d14	87.110		100.0		87.1	66	130				
Surr: Nitrobenzene-d5	100.190		100.0		100	47	117				
Surr: Phenol-d5	27.630		100.0		27.6	16	50				

Sample ID: **MB-61508MSD** SampType: **MSD** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **2/1/2010** RunNo: **117565**
Client ID: **ZZZZZZ** Batch ID: **61508** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **2/1/2010** SeqNo: **1867180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	111.310	2.0	100.0	0	111	70	130	113.1	1.62	20	
Surr: 1,2-Dichlorobenzene-d4	78.330		100.0		78.3	42	98		0	0	
Surr: 2,4,6-Tribromophenol	86.310		100.0		86.3	60	128		0	0	
Surr: 2-Chlorophenol-d4	64.610		100.0		64.6	43	102		0	0	
Surr: 2-Fluorobiphenyl	89.460		100.0		89.5	50	108		0	0	
Surr: 2-Fluorophenol	40.320		100.0		40.3	22	69		0	0	
Surr: 4-Terphenyl-d14	85.330		100.0		85.3	66	130		0	0	
Surr: Nitrobenzene-d5	110.090		100.0		110	47	117		0	0	
Surr: Phenol-d5	31.280		100.0		31.3	16	50		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_W_SEMI_LL

Sample ID: **MB-61446**	SampType: **MBLK**	TestCode: **HC_W_SEMI**	Units: **mg/L**		Prep Date: **1/28/2010**			RunNo: **117513**				
Client ID: **PBW**	Batch ID: **61446**	TestNo: **EPA 8015B(M**	**EPA 3510C**		Analysis Date: **1/29/2010**			SeqNo: **1866733**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
T/R Hydrocarbons: C13-C22	ND	0.050										
T/R Hydrocarbons: C23-C32	ND	0.050										
T/R Hydrocarbons:>C32	ND	0.050										
Surr: p-Terphenyl	0.066		0.08000		82.8	35	131					

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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ANALYTICAL QC SUMMARY REPORT

TestCode: HC_W_VOALLC4C12

Sample ID: **I100127LCS1** SampType: **LCS** TestCode: **HC_W_VOAL** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **LCSW** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1867640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	0.890	0.050	1.000	0	89.0	69	125				
Surr: Bromofluorobenzene (FID)	98.027		100.0		98.0	71	130				

Sample ID: **I100127MB2MS** SampType: **MS** TestCode: **HC_W_VOAL** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **ZZZZZZ** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1867641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	0.933	0.050	1.000	0	93.3	69	125				
Surr: Bromofluorobenzene (FID)	98.284		100.0		98.3	71	130				

Sample ID: **I100127MB2MSD** SampType: **MSD** TestCode: **HC_W_VOAL** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **ZZZZZZ** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1867642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	0.885	0.050	1.000	0	88.5	69	125	0.9330	5.28	20	
Surr: Bromofluorobenzene (FID)	95.833		100.0		95.8	71	130		0	0	

Sample ID: **I100127MB2** SampType: **MBLK** TestCode: **HC_W_VOAL** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **PBW** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1867643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	0.050									
Surr: Bromofluorobenzene (FID)	88.244		100.0		88.2	71	130				

Sample ID: **109828-004MDUP** SampType: **DUP** TestCode: **HC_W_VOAL** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **1087-ERB-W** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1867645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	0.050						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_W_VOALLC4C12

Sample ID: **109828-004MDUP** SampType: **DUP** TestCode: **HC_W_VOAL** Units: **mg/L** Prep Date: RunNo: **117403**
Client ID: **1087-ERB-W** Batch ID: **I10VW0022** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1867645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	88.670		100.0		88.7	71	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61446

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DM_** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.050	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DM_** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.050	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DM_** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.050	1.000	0	84.5	42	118				
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866291**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.20	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61446

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.20	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.20	1.000	0	84.5	42	118				
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Sample ID: **LCS-61446** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **LCSW** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.833	0.050	1.000	0	83.3	42	118				
Surr: p-Terphenyl	0.071		0.08000		89.2	35	131				

Sample ID: **MB-61446MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.841	0.050	1.000	0	84.1	42	118	0.8448	0.463	20	
Surr: p-Terphenyl	0.082		0.08000		103	35	131		0	0	

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.845	0.050	1.000	0	84.5	42	118				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 109828
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61446

Sample ID: **MB-61446MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **1/28/2010** RunNo: **117513**
Client ID: **ZZZZZZ** Batch ID: **61446** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **1/29/2010** SeqNo: **1866759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl	0.085		0.08000		106	35	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Advanced Technology Labs (5153)
ATTN: Rachelle Arada
3275 Walnut Street
Signal Hill, CA 90807

LAB REQUEST 248815
REPORTED 02/01/2010
RECEIVED 01/28/2010

PROJECT P.O. #SC05227

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1053746	109828-001N /1087-201-W
1053747	109828-002N /1087-201-WD
1053748	109828-003N /1087-203-W
1053749	109828-004N /1087-ERB-W
1053750	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1053746 **Client Sample ID:** 109828-001N /1087-201-W
Matrix: WATER
Date Sampled: 01/26/2010
Time Sampled: 11:20

Analyte	Result	DLR	Units	Date/Analyst	
504 - EDB and DBCP in Drinking Water					
1,2-Dibromo-3-Chloropropane	ND	0.01	ug/L	01/29/10	RB
1,2-Dibromoethane	ND	0.02	ug/L	01/29/10	RB

Order #: 1053747 **Client Sample ID:** 109828-002N /1087-201-WD
Matrix: WATER
Date Sampled: 01/26/2010
Time Sampled: 11:30

Analyte	Result	DLR	Units	Date/Analyst	
504 - EDB and DBCP in Drinking Water					
1,2-Dibromo-3-Chloropropane	ND	0.01	ug/L	01/29/10	RB
1,2-Dibromoethane	ND	0.02	ug/L	01/29/10	RB

Order #: 1053748 **Client Sample ID:** 109828-003N /1087-203-W
Matrix: WATER
Date Sampled: 01/26/2010
Time Sampled: 15:00

Analyte	Result	DLR	Units	Date/Analyst	
504 - EDB and DBCP in Drinking Water					
1,2-Dibromo-3-Chloropropane	ND	0.01	ug/L	01/29/10	RB
1,2-Dibromoethane	ND	0.02	ug/L	01/29/10	RB

Order #: 1053749 **Client Sample ID:** 109828-004N /1087-ERB-W
Matrix: WATER
Date Sampled: 01/26/2010
Time Sampled: 16:30

Analyte	Result	DLR	Units	Date/Analyst	
504 - EDB and DBCP in Drinking Water					
1,2-Dibromo-3-Chloropropane	ND	0.01	ug/L	01/29/10	RB
1,2-Dibromoethane	ND	0.02	ug/L	01/29/10	RB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Order #: 1053750 **Client Sample ID:** Laboratory Method Blank
Matrix: WATER

Analyte	Result	DLR	Units	Date/Analyst	
504 - EDB and DBCP in Drinking Water					
1,2-Dibromo-3-Chloropropane	ND	0.01	ug/L	01/29/10	RB
1,2-Dibromoethane	ND	0.02	ug/L	01/29/10	RB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method EPA 504 / 504.1 Preparative Method: EPA 504 / 504.1

QC Sample: 248815-1053749

Matrix: WATER

Analysis Date: 1/29/2010

Batch Date: 1/29/2010 (504-012910w)

Applies to: LR 248815

LABORATORY FORTIFIED BLANK (LFB)
REPORTING UNITS = µg/L

Test	Spike Added	Spike Recovered	% Rec LFB	QC Limit % Rec
1,2-Dibromoethane (EDB)	0.229	0.271	119	70-130
Dibromochloropropane	0.229	0.225	98	70-130

% Rec - LFB = Percent Recovery from LFB

LABORATORY FORTIFIED MATRIX (LFM)
REPORTING UNITS = µg/L

Test	Sample Result	Spike Added	Spike Recovered	% Rec LFM	QC Limit % Rec
1,2-Dibromoethane (EDB)	ND	0.114	0.144	126	65-135
Dibromochloropropane	ND	0.114	0.150	131	65-135

ND = Not Detected
% Rec - LFM = Percent Recovery from LFM

248815

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040

CHAIN-OF-CUSTODY RECORD

QC Level: CT/RWQCB

Subcontractor:
Associated Laboratories
806 N. Batavia
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Zack Mason

27-Jan-10

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: EPA 504		
109828-001N / 1087-201-W	Groundwater	1/26/2010 11:20:00 AM	VOA	1		
109828-002N / 1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	VOA	1		
109828-003N / 1087-203-W	Groundwater	1/26/2010 3:00:00 PM	VOA	1		
109828-004N / 1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	VOA	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: SC05227 Please fax results by: Normal TAT

Please send report to Rachelle Arada

		Date/Time			Date/Time
Relinquished by:	[signature]	1/27/10 15:10	**Received by:**	[signature] Rodriguez	1/28/10 900
Relinquished by:	[signature] Rodriguez	1/28/10 1511	**Received by:**	[signature]	01-28-10 1511

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 *FAX 714-538-1209*

SAMPLE ACCEPTANCE CHECKLIST

Section 1
Client: Advanced Tech Lab Project: _____
Date Received: 01-28-10 Sampler's Name: Yes No
Sample(s) received in cooler: Yes No (Skip Section 2)
Shipping Information: _____

Section 2
Was the cooler packed with: ____ Ice X Ice Packs ___ Bubble Wrap ___ Styrofoam
____ Paper ____ None ___ Other _____
Cooler or box temperature: 6.0C

(Acceptance range is 2 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	X		
Is it properly completed? (IDs, sampling date and time, signature, test)	X		
Were custody seals present?		X	
If Yes – were they intact?			X
Were all samples sealed in plastic bags?	X		
Did all samples arrive intact? If no, indicate below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were correct containers used for the tests required?	X		
Was a sufficient amount of sample sent for tests indicated?	X		
Was there headspace in VOA vials?		X	
Were the containers labeled with correct preservatives?	X		
Was total residual chlorine measured (Fish Bioassay samples only)? *			X

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
Explanations/Comments

Section 5
Was Project Manager notified of discrepancies: Y / N N/A

Completed By: M. Eckert Date: 01-28-10

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

Advanced Technology Laboratories
3275 Walnut Ave.
Signal Hill, CA 90755-

Telephone (562) 989-4045
Attn Rachelle Arada

Number of Pages 3
Date Received 01/27/2010
Date Reported 02/03/2010

Job Number	Ordered	Client
44556	01/27/2010	ATL

Project ID: 109828
Project Name:

Enclosed are the results of analyses on 4 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:
1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Ave.
Signal Hill, CA 90755-

Telephone: (562)989-4045
Attn: Rachelle Arada

Page: 3

Project ID: 109828

ASL Job Number	Submitted	Client
44556	01/27/2010	ATL

Method: SM5210B, Biochemical Oxygen Demand (BOD)

QC Batch No: 020110-1

Our Lab I.D.		247939	247940	247941		
Client Sample I.D.		109828-001O	109828-002O	109828-003O		
Date Sampled		01/26/2010	01/26/2010	01/26/2010		
Date Prepared		01/27/2010	01/27/2010	01/27/2010		
Preparation Method						
Date Analyzed		02/01/2010	02/01/2010	02/01/2010		
Matrix		Groundwater	Groundwater	Groundwater		
Units		mg/L	mg/L	mg/L		
Dilution Factor		1	1	1		
Analytes	**PQL**	**Results**	**Results**	**Results**		
Conventionals						
BOD @ 20C	5.00	ND	ND	ND		

QUALITY CONTROL REPORT

QC Batch No: 020110-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit					
Conventionals										
BOD @ 20C	93	91	2.2	80-120	20					

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Ave.
Signal Hill, CA 90755-

Telephone: (562)989-4045
Attn: Rachelle Arada

Page: 2

Project ID: 109828

ASL Job Number	Submitted	Client
44556	01/27/2010	ATL

Method: SM5210B, Biochemical Oxygen Demand (BOD)

QC Batch No: 020110-1

Our Lab I.D.		247942				
Client Sample I.D.		109828-004O				
Date Sampled		01/26/2010				
Date Prepared		01/27/2010				
Preparation Method						
Date Analyzed		02/01/2010				
Matrix		Drinking				
Units		mg/L				
Dilution Factor		1				
Analytes	**PQL**	**Results**				
Conventionals						
BOD @ 20C	5.00	ND				

QUALITY CONTROL REPORT

QC Batch No: 020110-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit					
Conventionals										
BOD @ 20C	93	91	2.2	80-120	20					

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 *FAX: (562) 989-4040*

CHAIN-OF-CUSTODY RECORD

QC Level: CT/RWQCB

Subcontractor:

American Scientific Laboratory
2520 N. San Fernando Rd.
Los Angeles, CA 90065

TEL: (323) 254-7700
FAX: (323) 223-9500
Acct #:

Field Sampler: Zoe Mason

27-Jan-10

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				SM5210B		
109828-001O / 1087-201-W	Groundwater	1/26/2010 11:20:00 AM	BOD/BOTTLE	1		
109828-002O / 1087-201-WD	Groundwater	1/26/2010 11:30:00 AM	BOD/BOTTLE	1		
109828-003O / 1087-203-W	Groundwater	1/26/2010 3:00:00 PM	BOD/BOTTLE	1		
109828-004O / 1087-ERB-W	Drinking Water	1/26/2010 4:30:00 PM	BOD/BOTTLE	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: SC05226 Please fax results by:Normal TAT

Please send report to Rachelle Arada

		Date/Time			Date/Time
Relinquished by:	[signature]	1/27/10 1041	**Received by:**	[signature] 1/27/10	13:15
Relinquished by:			**Received by:**		

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date: 1/27/10

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other:

Sample Condition Upon Receipt: 3.0 4.4 4.8
1. CHILLED 2.0 Y☑ N☐ 4. CUSTODY SEAL Y☐ N☑
2. HEADSPACE (VOA) Y☑ N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☑ N☐

Client: Ninyo & Moore
Attn: Nancy Anglin
Address: 475 Goddard, Suite 200
City Irvine State CA Zip Code 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Caltrans TO-16 Project #: 207126016 Sampler: (Printed Name) Zack Mason (Signature) Zack Mason

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Zack Mason Zack Mason	1/26/10	18:10	Tommy Mutter	1/26/10	18:10
Tommy Mutter	1/27/10	08:10	Mayo	1/27/10	8:10

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Tommy Mutter (Print Name) 1/27/10 (Date)
Signature: Tommy Mutter

Send Report To: Attn: Nancy Anglin
Co:
Address
City State Zip

Bill To: Attn: SAME
Co:
Address
City State Zip

Special Instructions/Comments:
Run for RWQCB construction dewatering permit
see attached list

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	109828-001	1087-201-W	1/26/10	11:20												X					5	Various			
	2	1087-201-WD	↓	11:30												X					↓		↓		
	3	1087-203-W		15:00												X									
	4	1087-ERB-W		16:30											X										
	5	Trip Blank					X								X							3			

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

NPDES Application Supplemental Requirements

I. Pollutants Analysis/Measurements

Analysis/measurement for the following pollutants should accompany the NPDES application for discharges of wastewater to surface waters.

Table I. List of Pollutants Analysis/Measurements

ID Num.	Pollutant	Quantitation Level	Screening Levels		Minimum Levels (ML)
			MUN[a]	Others[b]	
		Unit -- (µg/L)	Unit -- (µg/L)		Unit -- (µg/L)
	Metals[(a)]				
1097	Antimony (Sb)		14	4300	5
1000	Arsenic (As)		50	36	10
1012	Beryllium (Be)		4	--	0.5
1027	Cadmium (Cd)		2.4	9.4	0.5
1033	Chromium III (Cr3+)		50	--	10
1032	Chromium VI (Cr6+)		11	50	5
1119	Copper (Cu)		9.4	3.7	0.5
720	Cyanide (CN)		5.2	--	5
1051	Lead (Pb)		3.2	8.5	0.5
71900	Mercury (Hg)		0.050	0.051	0.2
1067	Nickel (Ni)		52	8.3	1
1147	Selenium (Se)		5.0	71	2
1077	Silver (Ag)		4	2.2	0.25
1059	Thallium (Ti)		1.7	6.3	1
1092	Zinc (Zn)		122	86	20
	(a) = Metals concentrations are expressed as total recoverable				
	Volatile Organic Compounds				
34496	1,1 Dichloroethane		5	5	1
34501	1,1 Dichloroethylene		0.057	3.2	0.5
34506	1,1,1 Trichloroethane		200	200	2
34511	1,1,2 Trichloroethane		0.60	42	0.5
34516	1,1,2,2 Tetrachloroethane		0.17	11	0.5
34536	1,2 Dichlorobenzene		600	17000	0.5
32103	1,2 Dichloroethane		0.38	99	0.5
34541	1,2 Dichloropropane		0.52	39	0.5
34549	1,2-Trans Dichloroethylene		10	140000	1
34566	1,3 Dichlorobenzene		400	2600	2
34561	1,3 Dichloropropylene		0.5	0.5	0.5
34571	1,4 Dichlorobenzene		5	0.5	0.5
34576	2-Chloroethyl vinyl ether		--	--	1
34210	Acrolein		100	100	5
34215	Acrylonitrile		0.059	0.66	2.0
34030	Benzene		1.0	1.0	0.5
32104	Bromoform		4.3	360	0.5
32102	Carbon Tetrachloride		0.25	4.4	0.5
34301	Chlorobenzene		30	21000	2
34306	Chlorodibromo-methane		0.401	34	0.5
85811	Chloroethane		100	100	2
32106	Chloroform		100	100	2
32101	Dichlorobromo-methane		0.56	46	0.5
78113	Ethylbenzene		700	700	2
34413	Methyl Bromide		10	4000	2
34418	Methylene Chloride		4.7	1600	0.5
34475	Tetrachloroethylene		0.8	8.85	0.5
34010	Toluene		150	150	2
39180	Trichloroethylene		2.7	5	0.5
39175	Vinyl Chloride		0.5	0.5	0.5
63	Xylenes		1750	1750	na
	Acetone		700	700	na
	Ethylene Dibromide		0.05	0.05	na
	Methyl Chloride		3	3	0.5

[a] Applies to water with Municipal and Domestic Supply (MUN) (indicated with E and I in the Basin Plan) beneficial uses designations.

[b] Applies to all other receiving waters.

ID Num.	Pollutant	Quantitation Level	Screening Levels		Minimum Levels (ML)
			MUN[a]	Others[b]	
		Unit -- (µg/L)	Unit -- (µg/L)		Unit -- (µg/L)
	Methyl ethyl ketone		700	700	na
	Pesticides and PCBs				
39310	4,4'-DDD		0.00083	0.00084	0.05
39320	4,4'-DDE		0.00059	0.00059	0.05
39300	4,4'-DDT		0.00059	0.00059	0.01
78428	Alpha-Endosulfan		0.056	0.0087	0.02
39336	Alpha-BHC		0.0039	0.013	0.01
39330	Aldrin		0.00013	0.00014	0.005
34356	Beta-Endosulfan		0.056	0.0087	0.01
39338	beta-BHC		0.014	0.046	0.005
39350	Chlordane		0.00057	0.00059	0.1
34198	delta-BHC		--	--	0.005
39380	Dieldrin		0.00014	0.00014	0.01
34351	Endosulfan Sulfate		110	240	0.05
39390	Endrin		0.036	0.0023	0.01
34366	Endrin Aldehyde		0.76	0.81	0.01
39410	Heptachlor		0.00021	0.00021	0.01
39420	Heptachlor Epoxide		0.0001	0.00011	0.01
39340	gamma-BHC		0.019	0.063	0.02
4166	PCB 1016		0.00017	0.00017	0.5
4166	PCB 1221		0.00017	0.00017	0.5
4166	PCB 1232		0.00017	0.00017	0.5
4166	PCB 1242		0.00017	0.00017	0.5
4166	PCB 1248		0.00017	0.00017	0.5
4166	PCB 1254		0.00017	0.00017	0.5
4166	PCB 1260		0.00017	0.00017	0.5
39400	Toxaphene		0.00073	0.00075	0.5
	Semi – Volatile Organic Compounds				
34536	1,2 Dichlorobenzene		600	17000	0.5
34346	1,2 Diphenylhydrazine		0.040	0.54	1
34551	1,2,4 Trichlorobenzene		70	--	5
34566	1,3 Dichlorobenzene		400	2600	2
34571	1,4 Dichlorobenzene		5	2600	2
34586	2 Chlorophenol		120	400	5
34601	2,4 Dichlorophenol		93	790	5
34606	2,4 Dimethylphenol		540	2300	2
34616	2,4 Dinitrophenol		70	14000	5
34611	2,4 Dinitrotoluene		0.11	9.1	5
34624	2,4,6 Trichlorophenol		2.1	6.5	10
34626	2,6 Dinitrotoluene		--	--	5
34591	2-Nitrophenol		--	--	10
34581	2-Chloronaphthalene		1700	4300	10
34631	3,3' Dichlorobenzidine		0.04	0.077	5
	3-Methyl-4-Chlorophenol		--	--	1
3615	2-Methyl-4,6-Dinitrophenol		13	765	5
34646	4-Nitrophenol		--	--	5
34636	4-Bromophenyl phenyl ether		--	--	5
34641	4-Chlorophenyl phenyl ether		--	--	5
34205	Acenaphthene		1200	2700	1
34200	Acenaphthylene		--	--	10
34220	Anthracene		9600	110000	5
39120	Benzidine		0.00012	0.00054	5
34526	Benzo (a) Anthracene		0.0044	0.049	5
34247	Benzo (a) Pyrene		0.0044	0.049	2
34230	Benzo (b) Fluoranthene		0.0044	0.049	10
34521	Benzo (g,h,i) Perylene		--	--	5
34242	Benzo (k) Fluoranthene		0.0044	0.049	2
34278	Bis (2-Chloroethoxyl) methane		--	--	5
34273	Bis(2-Chloroethyl) ether		0.031	1.4	1
34283	Bis(2-Chloroisopropyl) ether		1400	170000	10
39100	Bis(2-Ethylhexyl) phthalate		1.8	5.9	5
34292	Butyl benzyl phthalate		3000	5200	10
34320	Chrysene		0.0044	0.049	5
34556	Dibenzo(a,h)-anthracene		0.0044	0.049	0.1

ID Num.	Pollutant	Quantitation Level	Screening Levels		Minimum Levels (ML)
			MUN[a]	Others[b]	
		Unit -- (µg/L)	Unit -- (µg/L)		Unit -- (µg/L)
34336	Diethyl phthalate		23000	120000	10
34341	Dimethyl phthalate		313000	2900000	10
39110	di-n-Butyl phthalate		2700	12000	10
34596	di-n-Octyl phthalate		--	--	10
34376	Fluoranthene		300	370	10
34381	Fluorene		1300	14000	10
39700	Hexachlorobenzene		0.00075	0.00077	1
39702	Hexachlorobutadiene		0.44	50	1
34386	Hexachloro-cyclopentadiene		50	17000	5
34396	Hexachloroethane		1.9	8.9	1
34403	Indeno(1,2,3,cd)-pyrene		0.0044	0.049	0.05
34408	Isophorone		8.4	600	1
34438	N-Nitrosodimethyl amine (NDMA)		0.00069	8.1	5
34428	N-Nitroso-di-n-propyl amine		0.005	1.4	5
34433	N-Nitrosodiphenyl amine		5.0	16	1
34696	Naphthalene		21	--	10
34447	Nitrobenzene		17	1900	10
39032	Pentachlorophenol		0.28	7.9	1
34461	Phenanthrene		--	--	5
34694	Phenol		21000	4600000	50
34469	Pyrene		960	11000	10
	Miscellaneous				
82698	~~2,3,7,8-TCDD (Dioxin)~~		~~1.3E-08~~	~~1.3E-08~~	~~na~~
948	~~Asbestos (in fibers/L k,s)~~		~~7000000~~	~~7000000~~	~~na~~
	Perchlorate		4	4	na
	1,4-Dioxane		3	3	na
	~~Methyl tertiary butyl ether (MTBE)~~		~~5~~	~~5~~	~~2~~
	~~Di-isopropyl Ether (DIPE)~~		~~0.8~~	~~0.8~~	~~2~~
	~~Ethyl Tertiary Butyl Ether (ETBE)~~		~~2~~	~~2~~	~~2~~
	~~Tertiary Amyl Methyl Ether (TAME)~~		~~2~~	~~2~~	~~2~~
	~~Tertiary Butyl Alcohol (TBA)~~ *		~~12~~	~~12~~	~~10~~
	~~Methanol~~		~~1000~~	~~1000~~	~~1000~~
	~~Ethanol~~		~~1000~~	~~1000~~	~~1000~~
	Total Petroleum Hydrocarbons Using both EPA 418.1 and EPA 8015 (modified) methods		100	100	100
	*** Analysis required for petroleum-fuel impacted water only.**				
	Conventional	mg/L	mg/L	mg/L	mg/L
	Hardness		na	na	na
	pH (pH unit)		na	na	na
	Suspended solids		na	na	na
	BOD520°C		na	na	na
	Oil and grease		na	na	na
	Settleable Solids (ml/L)		na	na	na
	Turbidity		na	na	na
	Total Dissolved Solids		na	na	na
	Chlorides		na	na	na
	Sulfates		na	na	na
	Nitrites+Nitrates (as Nitrogen)		na	na	na
	Sulfides		na	na	na
	Boron		na	na	na
	Note: na = not applicable -- = no screening level				

II. Alternative Method of Disposal

The application should also be accompanied by a feasibility study of reuse of the wastewater, and if reuse is not feasible, alternatives for disposal other than surface waters.

— = do not need

January 28, 2010

Nancy Anglin
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618

TEL: (949) 753-7070
FAX: (949) 753-7071

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 109827

RE: Caltrans TO-16, 207126016

Attention: Nancy Anglin

Enclosed are the results for sample(s) received on January 27, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for EPA 8015B(M) (C13 to >C32)

Sample 109827-002ADUP, RPD for Sample Duplicate (DUP) is outside criteria; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *28-Jan-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	Location 1-Drum 1
Lab Order:	109827	**Collection Date:**	1/26/2010 5:05:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109827-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
EPA 3050M			**EPA 6010B**				
RunID: **ICP6_100127A**	QC Batch: **61403**				PrepDate: **1/27/2010**		Analyst: **SMH**
Lead	1.6	0.11	5.0	J	mg/Kg	1	1/27/2010 03:35 PM
HYDROCARBON CHAIN IDENTIFICATION							
EPA 3550B			**EPA 8015B(M)**				
RunID: **GC16_100127A**	QC Batch: **61401**				PrepDate: **1/27/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	ND	1.0	1.0		mg/Kg	1	1/27/2010 10:23 AM
T/R Hydrocarbons: C23-C32	4.2	1.0	1.0		mg/Kg	1	1/27/2010 10:23 AM
T/R Hydrocarbons:>C32	4.3	1.0	1.0		mg/Kg	1	1/27/2010 10:23 AM
Surr: p-Terphenyl	83.2	0	30-130		%REC	1	1/27/2010 10:23 AM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100127A**	QC Batch: **E10VS026**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/27/2010 11:13 AM
Surr: Bromofluorobenzene (FID)	73.9	0	59-145		%REC	1	1/27/2010 11:13 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_100127A**	QC Batch: **K10VS027**				PrepDate:		Analyst: **HH**
1,1,1,2-Tetrachloroethane	ND	1.7	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,1,1-Trichloroethane	ND	0.64	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,1,2,2-Tetrachloroethane	ND	1.6	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,1,2-Trichloroethane	ND	1.6	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,1-Dichloroethane	ND	0.50	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,1-Dichloroethene	ND	1.3	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,1-Dichloropropene	ND	1.5	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,2,3-Trichlorobenzene	ND	1.0	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,2,3-Trichloropropane	ND	0.75	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,2,4-Trichlorobenzene	ND	1.3	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,2,4-Trimethylbenzene	ND	0.86	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,2-Dibromo-3-chloropropane	ND	1.9	10		µg/Kg	1	1/27/2010 11:49 AM
1,2-Dibromoethane	ND	1.5	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,2-Dichlorobenzene	ND	0.83	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,2-Dichloroethane	ND	1.2	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/27/2010 11:49 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *28-Jan-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	Location 1-Drum 1
Lab Order:	109827	**Collection Date:**	1/26/2010 5:05:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109827-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS4_100127A** QC Batch: **K10VS027** PrepDate: Analyst: **HH**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,3,5-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,3-Dichlorobenzene	ND	1.0	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,3-Dichloropropane	ND	1.1	5.0		µg/Kg	1	1/27/2010 11:49 AM
1,4-Dichlorobenzene	ND	1.2	5.0		µg/Kg	1	1/27/2010 11:49 AM
2,2-Dichloropropane	ND	0.87	5.0		µg/Kg	1	1/27/2010 11:49 AM
2-Chlorotoluene	ND	0.66	5.0		µg/Kg	1	1/27/2010 11:49 AM
4-Chlorotoluene	ND	0.68	5.0		µg/Kg	1	1/27/2010 11:49 AM
4-Isopropyltoluene	ND	0.57	5.0		µg/Kg	1	1/27/2010 11:49 AM
Benzene	ND	0.82	5.0		µg/Kg	1	1/27/2010 11:49 AM
Bromobenzene	ND	1.6	5.0		µg/Kg	1	1/27/2010 11:49 AM
Bromodichloromethane	ND	0.85	5.0		µg/Kg	1	1/27/2010 11:49 AM
Bromoform	ND	1.2	5.0		µg/Kg	1	1/27/2010 11:49 AM
Bromomethane	ND	0.87	5.0		µg/Kg	1	1/27/2010 11:49 AM
Carbon tetrachloride	ND	1.3	5.0		µg/Kg	1	1/27/2010 11:49 AM
Chlorobenzene	ND	0.90	5.0		µg/Kg	1	1/27/2010 11:49 AM
Chloroethane	ND	1.3	5.0		µg/Kg	1	1/27/2010 11:49 AM
Chloroform	ND	0.62	5.0		µg/Kg	1	1/27/2010 11:49 AM
Chloromethane	ND	0.82	5.0		µg/Kg	1	1/27/2010 11:49 AM
cis-1,2-Dichloroethene	ND	1.2	5.0		µg/Kg	1	1/27/2010 11:49 AM
cis-1,3-Dichloropropene	ND	1.3	5.0		µg/Kg	1	1/27/2010 11:49 AM
Dibromochloromethane	ND	0.68	5.0		µg/Kg	1	1/27/2010 11:49 AM
Dibromomethane	ND	1.7	5.0		µg/Kg	1	1/27/2010 11:49 AM
Dichlorodifluoromethane	ND	0.60	5.0		µg/Kg	1	1/27/2010 11:49 AM
Ethylbenzene	ND	0.91	5.0		µg/Kg	1	1/27/2010 11:49 AM
Hexachlorobutadiene	ND	3.4	5.0		µg/Kg	1	1/27/2010 11:49 AM
Isopropylbenzene	ND	1.2	5.0		µg/Kg	1	1/27/2010 11:49 AM
m,p-Xylene	ND	1.7	10		µg/Kg	1	1/27/2010 11:49 AM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/27/2010 11:49 AM
n-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/27/2010 11:49 AM
n-Propylbenzene	ND	0.90	5.0		µg/Kg	1	1/27/2010 11:49 AM
Naphthalene	ND	1.7	5.0		µg/Kg	1	1/27/2010 11:49 AM
o-Xylene	ND	1.0	5.0		µg/Kg	1	1/27/2010 11:49 AM
sec-Butylbenzene	ND	0.85	5.0		µg/Kg	1	1/27/2010 11:49 AM
Styrene	ND	0.90	5.0		µg/Kg	1	1/27/2010 11:49 AM
tert-Butylbenzene	ND	0.61	5.0		µg/Kg	1	1/27/2010 11:49 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *28-Jan-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	Location 1-Drum 1
Lab Order:	109827	**Collection Date:**	1/26/2010 5:05:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109827-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_100127A**	QC Batch: **K10VS027**				PrepDate:		Analyst: **HH**
Tetrachloroethene	ND	1.1	5.0		µg/Kg	1	1/27/2010 11:49 AM
Toluene	ND	0.83	5.0		µg/Kg	1	1/27/2010 11:49 AM
trans-1,2-Dichloroethene	ND	0.99	5.0		µg/Kg	1	1/27/2010 11:49 AM
Trichloroethene	ND	2.0	5.0		µg/Kg	1	1/27/2010 11:49 AM
Trichlorofluoromethane	ND	1.2	5.0		µg/Kg	1	1/27/2010 11:49 AM
Vinyl chloride	ND	0.59	5.0		µg/Kg	1	1/27/2010 11:49 AM
Surr: 1,2-Dichloroethane-d4	100	0	70-130		%REC	1	1/27/2010 11:49 AM
Surr: 4-Bromofluorobenzene	85.8	0	70-130		%REC	1	1/27/2010 11:49 AM
Surr: Dibromofluoromethane	93.5	0	70-130		%REC	1	1/27/2010 11:49 AM
Surr: Toluene-d8	84.9	0	70-130		%REC	1	1/27/2010 11:49 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *28-Jan-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	Location 2-Drum 1
Lab Order:	109827	**Collection Date:**	1/26/2010 5:20:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109827-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
EPA 3050M			**EPA 6010B**				
RunID: **ICP6_100127A**	QC Batch: **61403**				PrepDate: **1/27/2010**		Analyst: **SMH**
Lead	2.0	0.11	5.0	J	mg/Kg	1	1/27/2010 03:36 PM
HYDROCARBON CHAIN IDENTIFICATION							
EPA 3550B			**EPA 8015B(M)**				
RunID: **GC16_100127A**	QC Batch: **61401**				PrepDate: **1/27/2010**		Analyst: **CBR**
T/R Hydrocarbons: C13-C22	5.5	1.0	1.0		mg/Kg	1	1/27/2010 10:31 AM
T/R Hydrocarbons: C23-C32	15	1.0	1.0		mg/Kg	1	1/27/2010 10:31 AM
T/R Hydrocarbons:>C32	20	1.0	1.0		mg/Kg	1	1/27/2010 10:31 AM
Surr: p-Terphenyl	64.8	0	30-130		%REC	1	1/27/2010 10:31 AM
HYDROCARBON CHAIN IDENTIFICATION							
			EPA 8015B(M)				
RunID: **GC2_100127A**	QC Batch: **E10VS026**				PrepDate:		Analyst: **KHN**
T/R Hydrocarbons: C4-C12	ND	0.19	1.0		mg/Kg	1	1/27/2010 11:42 AM
Surr: Bromofluorobenzene (FID)	100	0	59-145		%REC	1	1/27/2010 11:42 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_100127A**	QC Batch: **K10VS027**				PrepDate:		Analyst: **HH**
1,1,1,2-Tetrachloroethane	ND	1.7	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,1,1-Trichloroethane	ND	0.64	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,1,2,2-Tetrachloroethane	ND	1.6	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,1,2-Trichloroethane	ND	1.6	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,1-Dichloroethane	ND	0.50	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,1-Dichloroethene	ND	1.3	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,1-Dichloropropene	ND	1.5	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,2,3-Trichlorobenzene	ND	1.0	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,2,3-Trichloropropane	ND	0.75	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,2,4-Trichlorobenzene	ND	1.3	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,2,4-Trimethylbenzene	ND	0.86	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,2-Dibromo-3-chloropropane	ND	1.9	10		µg/Kg	1	1/27/2010 12:04 PM
1,2-Dibromoethane	ND	1.5	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,2-Dichlorobenzene	ND	0.83	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,2-Dichloroethane	ND	1.2	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/27/2010 12:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *28-Jan-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	Location 2-Drum 1
Lab Order:	109827	**Collection Date:**	1/26/2010 5:20:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109827-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS4_100127A** QC Batch: **K10VS027** PrepDate: Analyst: **HH**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,3,5-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,3-Dichlorobenzene	ND	1.0	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,3-Dichloropropane	ND	1.1	5.0		µg/Kg	1	1/27/2010 12:04 PM
1,4-Dichlorobenzene	ND	1.2	5.0		µg/Kg	1	1/27/2010 12:04 PM
2,2-Dichloropropane	ND	0.87	5.0		µg/Kg	1	1/27/2010 12:04 PM
2-Chlorotoluene	ND	0.66	5.0		µg/Kg	1	1/27/2010 12:04 PM
4-Chlorotoluene	ND	0.68	5.0		µg/Kg	1	1/27/2010 12:04 PM
4-Isopropyltoluene	ND	0.57	5.0		µg/Kg	1	1/27/2010 12:04 PM
Benzene	ND	0.82	5.0		µg/Kg	1	1/27/2010 12:04 PM
Bromobenzene	ND	1.6	5.0		µg/Kg	1	1/27/2010 12:04 PM
Bromodichloromethane	ND	0.85	5.0		µg/Kg	1	1/27/2010 12:04 PM
Bromoform	ND	1.2	5.0		µg/Kg	1	1/27/2010 12:04 PM
Bromomethane	ND	0.87	5.0		µg/Kg	1	1/27/2010 12:04 PM
Carbon tetrachloride	ND	1.3	5.0		µg/Kg	1	1/27/2010 12:04 PM
Chlorobenzene	ND	0.90	5.0		µg/Kg	1	1/27/2010 12:04 PM
Chloroethane	ND	1.3	5.0		µg/Kg	1	1/27/2010 12:04 PM
Chloroform	ND	0.62	5.0		µg/Kg	1	1/27/2010 12:04 PM
Chloromethane	ND	0.82	5.0		µg/Kg	1	1/27/2010 12:04 PM
cis-1,2-Dichloroethene	ND	1.2	5.0		µg/Kg	1	1/27/2010 12:04 PM
cis-1,3-Dichloropropene	ND	1.3	5.0		µg/Kg	1	1/27/2010 12:04 PM
Dibromochloromethane	ND	0.68	5.0		µg/Kg	1	1/27/2010 12:04 PM
Dibromomethane	ND	1.7	5.0		µg/Kg	1	1/27/2010 12:04 PM
Dichlorodifluoromethane	ND	0.60	5.0		µg/Kg	1	1/27/2010 12:04 PM
Ethylbenzene	ND	0.91	5.0		µg/Kg	1	1/27/2010 12:04 PM
Hexachlorobutadiene	ND	3.4	5.0		µg/Kg	1	1/27/2010 12:04 PM
Isopropylbenzene	ND	1.2	5.0		µg/Kg	1	1/27/2010 12:04 PM
m,p-Xylene	ND	1.7	10		µg/Kg	1	1/27/2010 12:04 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/27/2010 12:04 PM
n-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/27/2010 12:04 PM
n-Propylbenzene	ND	0.90	5.0		µg/Kg	1	1/27/2010 12:04 PM
Naphthalene	ND	1.7	5.0		µg/Kg	1	1/27/2010 12:04 PM
o-Xylene	ND	1.0	5.0		µg/Kg	1	1/27/2010 12:04 PM
sec-Butylbenzene	ND	0.85	5.0		µg/Kg	1	1/27/2010 12:04 PM
Styrene	ND	0.90	5.0		µg/Kg	1	1/27/2010 12:04 PM
tert-Butylbenzene	ND	0.61	5.0		µg/Kg	1	1/27/2010 12:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *28-Jan-10*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	Location 2-Drum 1
Lab Order:	109827	**Collection Date:**	1/26/2010 5:20:00 PM
Project:	Caltrans TO-16, 207126016	**Matrix:**	SOIL
Lab ID:	109827-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_100127A**	QC Batch: **K10VS027**				PrepDate:		Analyst: **HH**
Tetrachloroethene	ND	1.1	5.0		µg/Kg	1	1/27/2010 12:04 PM
Toluene	ND	0.83	5.0		µg/Kg	1	1/27/2010 12:04 PM
trans-1,2-Dichloroethene	ND	0.99	5.0		µg/Kg	1	1/27/2010 12:04 PM
Trichloroethene	ND	2.0	5.0		µg/Kg	1	1/27/2010 12:04 PM
Trichlorofluoromethane	ND	1.2	5.0		µg/Kg	1	1/27/2010 12:04 PM
Vinyl chloride	ND	0.59	5.0		µg/Kg	1	1/27/2010 12:04 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-130		%REC	1	1/27/2010 12:04 PM
Surr: 4-Bromofluorobenzene	88.2	0	70-130		%REC	1	1/27/2010 12:04 PM
Surr: Dibromofluoromethane	92.0	0	70-130		%REC	1	1/27/2010 12:04 PM
Surr: Toluene-d8	89.1	0	70-130		%REC	1	1/27/2010 12:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **LCS-61403** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117381**
Client ID: **LCSS** Batch ID: **61403** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2010** SeqNo: **1864051**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	295.679	5.0	250.0	0.3164	118	80	120				

Sample ID: **MB-61403** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117381**
Client ID: **PBS** Batch ID: **61403** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2010** SeqNo: **1864052**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.316	5.0									J

Sample ID: **109827-002A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117381**
Client ID: **Location 2-Drum 1** Batch ID: **61403** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2010** SeqNo: **1864055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.462	5.0						1.988	0	20	J

Sample ID: **109827-002A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117381**
Client ID: **Location 2-Drum 1** Batch ID: **61403** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2010** SeqNo: **1864056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	235.564	5.0	250.0	1.988	93.4	33	120				

Sample ID: **109827-002A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117381**
Client ID: **Location 2-Drum 1** Batch ID: **61403** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **1/27/2010** SeqNo: **1864057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	258.894	5.0	250.0	1.988	103	33	120	235.6	9.44	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K100127LC1** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **LCSS** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	45.090	5.0	50.00	0	90.2	70	130				
Benzene	93.570	5.0	100.0	0	93.6	70	130				
Chlorobenzene	46.270	5.0	50.00	0	92.5	70	130				
MTBE	46.390	5.0	50.00	0	92.8	70	130				
Toluene	95.860	5.0	100.0	0	95.9	70	130				
Trichloroethene	46.940	5.0	50.00	0	93.9	70	130				
Surr: 1,2-Dichloroethane-d4	44.560		50.00		89.1	70	130				
Surr: 4-Bromofluorobenzene	45.210		50.00		90.4	70	130				
Surr: Dibromofluoromethane	41.740		50.00		83.5	70	130				
Surr: Toluene-d8	44.660		50.00		89.3	70	130				

Sample ID: **109827-001AMS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **Location 1-Drum 1** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	46.510	5.0	50.00	0	93.0	70	130				
Benzene	89.290	5.0	100.0	0	89.3	70	130				
Chlorobenzene	43.940	5.0	50.00	0	87.9	70	130				
MTBE	42.480	5.0	50.00	0	85.0	70	130				
Toluene	90.570	5.0	100.0	0	90.6	70	130				
Trichloroethene	45.700	5.0	50.00	0	91.4	70	130				
Surr: 1,2-Dichloroethane-d4	50.160		50.00		100	70	130				
Surr: 4-Bromofluorobenzene	47.110		50.00		94.2	70	130				
Surr: Dibromofluoromethane	43.100		50.00		86.2	70	130				
Surr: Toluene-d8	45.490		50.00		91.0	70	130				

Sample ID: **109827-001AMSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **Location 1-Drum 1** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **109827-001AMSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **Location 1-Drum 1** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.940	5.0	50.00	0	89.9	70	130	46.51	3.43	20	
Benzene	89.740	5.0	100.0	0	89.7	70	130	89.29	0.503	20	
Chlorobenzene	44.460	5.0	50.00	0	88.9	70	130	43.94	1.18	20	
MTBE	41.090	5.0	50.00	0	82.2	70	130	42.48	3.33	20	
Toluene	91.600	5.0	100.0	0	91.6	70	130	90.57	1.13	20	
Trichloroethene	46.190	5.0	50.00	0	92.4	70	130	45.70	1.07	20	
Surr: 1,2-Dichloroethane-d4	46.510		50.00		93.0	70	130		0	20	
Surr: 4-Bromofluorobenzene	47.180		50.00		94.4	70	130		0	20	
Surr: Dibromofluoromethane	40.170		50.00		80.3	70	130		0	20	
Surr: Toluene-d8	44.740		50.00		89.5	70	130		0	20	

Sample ID: **K100127MB1** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **PBS** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K100127MB1** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **PBS** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K100127MB1** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **PBS** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	50.250		50.00		101	70	130				
Surr: 4-Bromofluorobenzene	45.300		50.00		90.6	70	130				
Surr: Dibromofluoromethane	46.190		50.00		92.4	70	130				
Surr: Toluene-d8	44.510		50.00		89.0	70	130				

Sample ID: **109827-001ADUP** SampType: **DUP** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **Location 1-Drum 1** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **109827-001ADUP** SampType: **DUP** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **Location 1-Drum 1** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Butanone	ND	50						0	0	20	
2-Chloroethyl vinyl ether	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
2-Hexanone	ND	50						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	
4-Isopropyltoluene	ND	5.0						0	0	20	
4-Methyl-2-pentanone	ND	50						0	0	20	
Acetone	ND	50						0	0	20	
Acrolein	ND	50						0	0	20	
Acrylonitrile	ND	50						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromochloromethane	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon disulfide	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **109827-001ADUP** SampType: **DUP** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **Location 1-Drum 1** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Cyclohexanone	ND	50						0	0	20	
Di-isopropyl ether	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	
Ethyl Acetate	ND	50						0	0	20	
Ethyl Ether	ND	50						0	0	20	
Ethyl Tert-butyl ether	ND	5.0						0	0	20	
Ethylbenzene	ND	5.0						0	0	20	
Freon-113	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Iodomethane	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
Tert-amyl methyl ether	ND	5.0						0	0	20	
Tert-Butanol	ND	100						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **109827-001ADUP** SampType: **DUP** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **117380**
Client ID: **Location 1-Drum 1** Batch ID: **K10VS027** TestNo: **EPA 8260B** Analysis Date: **1/27/2010** SeqNo: **1864030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
trans-1,3-Dichloropropene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl acetate	ND	50						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Xylenes, Total	ND	15						0	0	20	
Surr: 1,2-Dichloroethane-d4	52.110		50.00		104	70	130		0	20	
Surr: 4-Bromofluorobenzene	43.750		50.00		87.5	70	130		0	20	
Surr: Dibromofluoromethane	46.430		50.00		92.9	70	130		0	20	
Surr: Toluene-d8	45.030		50.00		90.1	70	130		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_SEMI_LL

Sample ID: **MB-61401** SampType: **MBLK** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117365**
Client ID: **PBS** Batch ID: **61401** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/27/2010** SeqNo: **1863821**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C13-C22	ND	1.0									
T/R Hydrocarbons: C23-C32	ND	1.0									
T/R Hydrocarbons:>C32	ND	1.0									
Surr: p-Terphenyl	2.463		2.670		92.2	30	130				

Sample ID: **109827-002ADUP** SampType: **DUP** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117365**
Client ID: **Location 2-Drum 1** Batch ID: **61401** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/27/2010** SeqNo: **1863825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C13-C22	3.996	1.0						5.519	32.0	20	R
T/R Hydrocarbons: C23-C32	15.286	1.0						14.51	5.20	20	
T/R Hydrocarbons:>C32	19.651	1.0						19.51	0.718	20	
Surr: p-Terphenyl	2.973		2.670		111	30	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **E100127LCS1** SampType: **LCS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117368**
Client ID: **LCSS** Batch ID: **E10VS026** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1863909**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	4.671	1.0	5.000	0	93.4	73	120				
Surr: Bromofluorobenzene (FID)	87.184		100.0		87.2	59	145				

Sample ID: **109827-001AMS** SampType: **MS** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117368**
Client ID: **Location 1-Drum 1** Batch ID: **E10VS026** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1863910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	2.685	1.0	5.000	0	53.7	39	135				
Surr: Bromofluorobenzene (FID)	90.725		100.0		90.7	59	145				

Sample ID: **109827-001AMSD** SampType: **MSD** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117368**
Client ID: **Location 1-Drum 1** Batch ID: **E10VS026** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1863911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	3.038	1.0	5.000	0	60.8	39	135	2.685	12.3	20	
Surr: Bromofluorobenzene (FID)	97.292		100.0		97.3	59	145		0	0	

Sample ID: **E100127MB1** SampType: **MBLK** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117368**
Client ID: **PBS** Batch ID: **E10VS026** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1863912**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0									
Surr: Bromofluorobenzene (FID)	93.059		100.0		93.1	59	145				

Sample ID: **109827-001ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117368**
Client ID: **Location 1-Drum 1** Batch ID: **E10VS026** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1863914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C4-C12	ND	1.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

TestCode: HC_S_VOAC4C12

Sample ID: **109827-001ADUP** SampType: **DUP** TestCode: **HC_S_VOAC** Units: **mg/Kg** Prep Date: RunNo: **117368**
Client ID: **Location 1-Drum 1** Batch ID: **E10VS026** TestNo: **EPA 8015B(M** Analysis Date: **1/27/2010** SeqNo: **1863914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	99.119		100.0		99.1	59	145		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ninyo & Moore
Work Order: 109827
Project: Caltrans TO-16, 207126016

ANALYTICAL QC SUMMARY REPORT

BatchID: 61401

Sample ID: **LCS-61401** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117365**
Client ID: **LCSS** Batch ID: **61401** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/27/2010** SeqNo: **1863808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	27.733	1.0	33.00	0	84.0	35	124				
Surr: p-Terphenyl	2.583		2.670		96.7	30	130				

Sample ID: **109827-002AMS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117365**
Client ID: **Location 2-Drum 1** Batch ID: **61401** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/27/2010** SeqNo: **1863812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	34.465	1.0	33.00	13.10	64.7	12	125				
Surr: p-Terphenyl	2.731		2.670		102	30	130				

Sample ID: **109827-002AMSD** SampType: **MSD** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **1/27/2010** RunNo: **117365**
Client ID: **Location 2-Drum 1** Batch ID: **61401** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/27/2010** SeqNo: **1863813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	30.452	1.0	33.00	13.10	52.6	12	125	34.47	12.4	20	
Surr: p-Terphenyl	2.280		2.670		85.4	30	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date: 1/27/10

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other:

Sample Condition Upon Receipt: 4.8
1. CHILLED Y☑ N☐ 4. CUSTODY SEAL Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ (NA) 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Nancy Anglin
Address: 475 Goddard, Suite 200
City: Irvine State: CA Zip Code: 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Caltrans TO-16
Project #: 207126016
Sampler: (Printed Name) Zack Mason (Signature) Zack Mason

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Zack Mason Zack Mason	1/26/10	18:10	Tommy Mutter	1/26/10	18:10
Tommy Mutter	1/27/10	08:10	Mary Ann	1/27/10	8:10

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Tommy Mutter (Print Name) 1/27/10 (Date)
Signature: Tommy Mutter

Send Report To:
Attn: Nancy Anglin
Co:
Address
City State Zip

Bill To:
Attn: SAME
Co:
Address
City State Zip

Special Instructions/Comments:
24-Hour TAT
C_4-C_{12}, C_{13}-C_{22}, C_{23}-C_{32}, $>C_{32}$

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (~~Total Metal~~) LEAD	8015B (GRO) / 8020 (BTEX)	8015B (~~DRO~~) TPH	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	109827-001	Location 1 - Drum 1	1/26/10	17:05		X		X		X					X						A	1	J		—
	1 2	Location 2 - Drum 1	1/26/10	17:20		X		X		X					X						A	1	J		—

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr; B= Emergency Next workday; C= Critical 2 Workdays; D= Urgent 3 Workdays; E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

APPENDIX D

DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	Not Required	1	(562) 786-6200	011089

5. Generator's Name and Mailing Address
Caltrans - Dept. of Trans. Dist. 7
100 S. Main Street, Suite 1200 Los Angeles Ca. 90012
Generator's Phone:

Generator's Site Address (if different than mailing address)
Project Location
Bridge # 52-139 & Bridge # 52-140, Ventura County

6. Transporter 1 Company Name: KM Industrial, Inc.
U.S. EPA ID Number: CAL000274783

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Crosby & Overton
1610 W. 17th Street Long Beach CA 90813
Facility's Phone: 562-432-5445
U.S. EPA ID Number: CAD028409019

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol.
1. Non Hazardous Waste Liquids	1	DM	50	G
2. Non-Hazardous Waste Solids	4	DM	2000	P
3.				
4.				

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling.
Weights or volumes are approximate
24 hour emergency telephone number (562)786-6200

9b(1) Profile #: 60044
Appointment #: 012910
KM Job #: 40451

9b(2) Profile #: 60045
Time: 1600 Hours

D25+00

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Nancy Anglin On Behalf of Caltrans - Dept. of Trans.
Signature:
Month 01 Day 29 Year 10

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alfredo Carmona
Signature:
Month 01 Day 29 Year 10

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

H13 54 HH

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Laura Christensen
Signature:
Month 01 Day 29 Year 10

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

APPENDIX E

CALTRANS HAZ GIS DATABASE EXCEL SPREADSHEET DELIVERABLES

ID	Unique ID	Borehole ID	Borehole Latit	Borehole Longit	Boreho
1	1087	101	6138019.145	1946531.0118	2
2	1087	102	6138143.209	1946440.1044	2
3	1087	103	6138265.980	1946347.5662	2
4	1087	104	6138386.625	1946250.9359	2
5	1087	105	6153009.063	1937197.2064	2
6	1087	106	6153188.998	1937016.8238	2
7	1087	107	6153361.171	1936838.4199	2
8	1087	108	6153445.675	1936757.5158	2
9	1087	109	6153514.935	1936690.3547	2
10	1087	110	6153600.954	1936602.8855	2
11	1087	111	6153688.558	1936511.9850	2
12	1087	112	6153807.485	1936395.8606	2
13	1087	113	6153938.227	1936259.5699	2
14	1087	114	6154108.782	1936086.4135	2
15	1087	201	6138075.737	1946476.0594	20
16	1087	202	6138317.235	1946283.7811	15
17	1087	203	6153266.919	1936915.0871	15
18	1087	204	6153526.933	1936653.5180	15
19	1087	205	6153713.202	1936464.4581	15
20	1087	206	6153902.969	1936274.5217	15
21	1087	207	6154161.558	1936010.0705	15

ID	Borehole ID	Sample ID	Sample Date	Sample Depth	F
1	101	1087-101-0.5	1/26/2010	0.5	
2	101	1087-101-1	1/26/2010	1	
3	101	1087-101-2	1/26/2010	2	
4	102	1087-102-0.5	1/26/2010	0.5	
5	102	1087-102-1	1/26/2010	1	
6	102	1087-102-2	1/26/2010	2	
7	103	1087-103-0.5	1/26/2010	0.5	
8	103	1087-103-1	1/26/2010	1	
9	103	1087-103-2	1/26/2010	2	
10	103	1087-103-2D	1/26/2010	2	
11	104	1087-104-0.5	1/26/2010	0.5	
12	104	1087-104-1	1/26/2010	1	
13	104	1087-104-2	1/26/2010	2	
14	105	1087-105-0.5	1/26/2010	0.5	
15	105	1087-105-1	1/26/2010	1	
16	105	1087-105-2	1/26/2010	2	
17	106	1087-106-0.5	1/26/2010	0.5	
18	106	1087-106-1	1/26/2010	1	
19	106	1087-106-2	1/26/2010	2	
20	107	1087-107-0.5	1/26/2010	0.5	
21	107	1087-107-0.5D	1/26/2010	0.5	
22	107	1087-107-1	1/26/2010	1	
23	107	1087-107-2	1/26/2010	2	
24	108	1087-108-0.5	1/26/2010	0.5	
25	108	1087-108-1	1/26/2010	1	
26	108	1087-108-2	1/26/2010	2	
27	109	1087-109-0.5	1/26/2010	0.5	
28	109	1087-109-1	1/26/2010	1	
29	109	1087-109-1D	1/26/2010	1	
30	109	1087-109-2	1/26/2010	2	
31	110	1087-110-0.5	1/26/2010	0.5	
32	110	1087-110-1	1/26/2010	1	
33	110	1087-110-2	1/26/2010	2	
34	111	1087-111-0.5	1/26/2010	0.5	
35	111	1087-111-1	1/26/2010	1	
36	111	1087-111-2	1/26/2010	2	
37	111	1087-111-2D	1/26/2010	2	
38	112	1087-112-0.5	1/26/2010	0.5	
39	112	1087-112-1	1/26/2010	1	
40	112	1087-112-2	1/26/2010	2	
41	113	1087-113-0.5	1/26/2010	0.5	
42	113	1087-113-1	1/26/2010	1	
43	113	1087-113-1D	1/26/2010	1	
44	113	1087-113-2	1/26/2010	2	
45	114	1087-114-0.5	1/26/2010	0.5	
46	114	1087-114-1	1/26/2010	1	

ID	Borehole ID	Sample ID	Sample Date	Sample Depth	F
47	114	1087-114-2	1/26/2010	2	
48	201	1087-201-0.5	1/26/2010	0.5	
49	201	1087-201-10	1/26/2010	10	
50	201	1087-201-20	1/26/2010	20	
51	203	1087-203-0.5	1/26/2010	0.5	
52	203	1087-203-5	1/26/2010	5	
53	203	1087-203-10	1/26/2010	10	
54	203	1087-203-10D	1/26/2010	10	
55	203	1087-203-15	1/26/2010	15	
56	202	1087-202-0.5	1/27/2010	0.5	
57	202	1087-202-0.5D	1/27/2010	0.5	
58	202	1087-202-5	1/27/2010	5	
59	202	1087-202-10	1/27/2010	10	
60	202	1087-202-15	1/27/2010	15	
61	204	1087-204-0.5	1/27/2010	0.5	
62	204	1087-204-5	1/27/2010	5	
63	204	1087-204-10	1/27/2010	10	
64	204	1087-204-15	1/27/2010	15	
65	205	1087-205-0.5	1/27/2010	0.5	
66	205	1087-205-5	1/27/2010	5	
67	205	1087-205-5D	1/27/2010	5	
68	205	1087-205-10	1/27/2010	10	
69	205	1087-205-15	1/27/2010	15	
70	206	1087-206-0.5	1/27/2010	0.5	
71	206	1087-206-0.5D	1/27/2010	0.5	
72	206	1087-206-5	1/27/2010	5	
73	206	1087-206-10	1/27/2010	10	
74	206	1087-206-15	1/27/2010	15	
75	207	1087-207-0.5	1/27/2010	0.5	
76	207	1087-207-5	1/27/2010	5	
77	207	1087-207-10	1/27/2010	10	
78	207	1087-207-15	1/27/2010	15	
79	201	1087-201-W	1/26/2010		
80	201	1087-201-WD	1/26/2010		
81	203	1087-203-W	1/26/2010		
82		1087-ERB-W	1/26/2010		
83		Trip Blank	1/26/2010		
84		Location 1 - Dr	1/26/2010		
85		Location 2 - Dr	1/26/2010		
86		1087-ERB-SP	1/26/2010		
87		1087-ERB-SS2	1/27/2010		
88		1087-ERB-5	1/26/2010		

ID	Test Type	Category
1	SVOCs EPA 3550B8270C	SVOCs
2	VOCs EPA 8260B	VOCs
3	pH EPA 9045C	pH
4	TPH 8015B (M)	TPH
5	Metals EPA 6010B	Metals
6	Mercury EPA 7471A	Mercury
7	OCPs EPA 8081A	OCPs
8	TTLC Lead	Metals
9	STLC Lead WET-Citric	Metals
10	TCLP Lead	Metals
11	Postfiltered Metals	Metals
12	Perchlorate	Miscellaneous
13	1, 4 - Dioxane	Miscellaneous
14	TPH	Miscellaneous
15	Hardness	Conventional
16	pH	Conventional
17	Suspended Solids	Conventional
18	BOD	Conventional
19	Oil and Grease	Conventional
20	Settleable Matter	Conventional
21	Turbidity	Conventional
22	TDS	Conventional
23	Chloride	Conventional
24	Sulfate	Conventional
25	Nitrogen, Nitrate	Conventional
26	Nitrogen, Nitrite	Conventional
27	Total Sulfide	Conventional
28	Boron	Conventional

ID	Test Type	Category
1	SVOCs EPA 3550B8270C	SVOCs
2	VOCs EPA 8260B	VOCs
3	pH EPA 9045C	pH
4	TPH 8015B (M)	TPH
5	Metals EPA 6010B	Metals
6	Mercury EPA 7471A	Mercury
7	OCPs EPA 8081A	OCPs
8	TTLC Lead	Metals
9	STLC Lead WET-Citric	Metals
10	TCLP Lead	Metals
11	Postfiltered Metals	Metals
12	Perchlorate	Miscellaneous
13	1, 4 - Dioxane	Miscellaneous
14	TPH	Miscellaneous
15	Hardness	Conventional
16	pH	Conventional
17	Suspended Solids	Conventional
18	BOD	Conventional
19	Oil and Grease	Conventional
20	Settleable Matter	Conventional
21	Turbidity	Conventional
22	TDS	Conventional
23	Chloride	Conventional
24	Sulfate	Conventional
25	Nitrogen, Nitrate	Conventional
26	Nitrogen, Nitrite	Conventional
27	Total Sulfide	Conventional
28	Boron	Conventional

ID	Analyte	Category
1	Turbidity	Conventional
2	Chloride	Miscellaneous
3	Nitrogen, Nitrate (As N)	Miscellaneous
4	Nitrogen, Nitrite	Miscellaneous
5	Sulfate	Miscellaneous
6	Perchlorate	Miscellaneous
7	pH	Miscellaneous
8	Settleable Matter	Miscellaneous
9	Total Dissolved Solids (Res	Miscellaneous
10	Suspended Solids (Residue	Miscellaneous
11	Oil & Grease	Miscellaneous
12	Total Petroleum Hydrocarb	Miscellaneous
13	1,2,4-Trichlorobenzene	SVOCs
14	1,2-Dichlorobenzene	SVOCs
15	1,2-Diphenylhydrazine	SVOCs
16	1,3-Dichlorobenzene	SVOCs
17	1,4-Dichlorobenzene	SVOCs
18	2,4,6-Trichlorophenol	SVOCs
19	2,4-Dichlorophenol	SVOCs
20	2,4-Dimethylphenol	SVOCs
21	2,4-Dinitrophenol	SVOCs
22	2,4-Dinitrotoluene	SVOCs
23	2,6-Dinitrotoluene	SVOCs
24	2-Chloronaphthalene	SVOCs
25	2-Chlorophenol	SVOCs
26	2-Nitrophenol	SVOCs
27	3,3′-Dichlorobenzidine	SVOCs
28	4,6-Dinitro-2-methylphenol	SVOCs
29	4-Bromophenyl-phenylether	SVOCs
30	4-Chloro-3-methylphenol	SVOCs
31	4-Chlorophenyl-phenylether	SVOCs
32	4-Nitrophenol	SVOCs
33	Acenaphthene	SVOCs
34	Acenaphthylene	SVOCs
35	Anthracene	SVOCs
36	Benzidine (M)	SVOCs
37	Benzo(a)anthracene	SVOCs
38	Benzo(a)pyrene	SVOCs
39	Benzo(b)fluoranthene	SVOCs
40	Benzo(g,h,i)perylene	SVOCs
41	Benzo(k)fluoranthene	SVOCs
42	Bis(2-chloroethoxy)methan	SVOCs
43	Bis(2-chloroethyl)ether	SVOCs
44	Bis(2-chloroisopropyl)ether	SVOCs
45	Bis(2-ethylhexyl)phthalate	SVOCs
46	Butylbenzylphthalate	SVOCs

ID	Analyte	Category
47	Chrysene	SVOCs
48	Dibenz(a,h)anthracene	SVOCs
49	Diethylphthalate	SVOCs
50	Dimethylphthalate	SVOCs
51	Di-n-butylphthalate	SVOCs
52	Di-n-octylphthalate	SVOCs
53	Fluoranthene	SVOCs
54	Fluorene	SVOCs
55	Hexachlorobenzene	SVOCs
56	Hexachlorobutadiene	SVOCs
57	Hexachlorocyclopentadiene	SVOCs
58	Hexachloroethane	SVOCs
59	Indeno(1,2,3-cd)pyrene	SVOCs
60	Isophorone	SVOCs
61	Naphthalene	SVOCs
62	Nitrobenzene	SVOCs
63	N-Nitrosodimethylamine	SVOCs
64	N-Nitrosodi-n-propylamine	SVOCs
65	N-Nitrosodiphenylamine	SVOCs
66	Pentachlorophenol	SVOCs
67	Phenanthrene	SVOCs
68	Phenol	SVOCs
69	Pyrene	SVOCs
70	1,4-Dioxane	Miscellaneous
71	4,4´-DDD	OCPs
72	4,4´-DDE	OCPs
73	4,4´-DDT	OCPs
74	Aldrin	OCPs
75	alpha-BHC	OCPs
76	Aroclor 1016	Polychlorinated biphenyl
77	Aroclor 1221	Polychlorinated biphenyl
78	Aroclor 1232	Polychlorinated biphenyl
79	Aroclor 1242	Polychlorinated biphenyl
80	Aroclor 1248	Polychlorinated biphenyl
81	Aroclor 1254	Polychlorinated biphenyl
82	Aroclor 1260	Polychlorinated biphenyl
83	beta-BHC	OCPs
84	Chlordane	OCPs
85	delta-BHC	OCPs
86	Dieldrin	OCPs
87	Endosulfan I	OCPs
88	Endosulfan II	OCPs
89	Endosulfan sulfate	OCPs
90	Endrin	OCPs
91	Endrin aldehyde	OCPs
92	gamma-BHC	OCPs

ID	Analyte	Category
93	Heptachlor	OCPs
94	Heptachlor epoxide	OCPs
95	Toxaphene	OCPs
96	Chromium, Hexavalent	Title 22 metals
97	Boron	Title 22 metals
98	Antimony	Title 22 metals
99	Arsenic	Title 22 metals
100	Beryllium	Title 22 metals
101	Cadmium	Title 22 metals
102	Chromium	Title 22 metals
103	Copper	Title 22 metals
104	Lead	Title 22 metals
105	Nickel	Title 22 metals
106	Selenium	Title 22 metals
107	Silver	Title 22 metals
108	Thallium	Title 22 metals
109	Zinc	Title 22 metals
110	Mercury	Title 22 metals
111	Hardness (As CaCO3)	Conventional
112	Sulfide	Conventional
113	Cyanide	Conventional
114	1,1,1-Trichloroethane	VOCs
115	1,1,2,2-Tetrachloroethane	VOCs
116	1,1,2-Trichloroethane	VOCs
117	1,1-Dichloroethane	VOCs
118	1,1-Dichloroethene	VOCs
119	1,2-Dichlorobenzene	VOCs
120	1,2-Dichloroethane	VOCs
121	1,2-Dichloropropane	VOCs
122	1,3-Dichlorobenzene	VOCs
123	1,4-Dichlorobenzene	VOCs
124	2-Chloroethyl vinyl ether	VOCs
125	Acrolein	VOCs
126	Acrylonitrile	VOCs
127	Benzene	VOCs
128	Bromodichloromethane	VOCs
129	Bromoform	VOCs
130	Bromomethane	VOCs
131	Carbon tetrachloride	VOCs
132	Chlorobenzene	VOCs
133	Chloroethane	VOCs
134	Chloroform	VOCs
135	Chloromethane	VOCs
136	cis-1,3-Dichloropropene	VOCs
137	Dibromochloromethane	VOCs
138	Ethylbenzene	VOCs

ID	Analyte	Category
139	Methylene chloride	VOCs
140	Tetrachloroethene	VOCs
141	Toluene	VOCs
142	trans-1,2-Dichloroethene	VOCs
143	trans-1,3-Dichloropropene	VOCs
144	Trichloroethene	VOCs
145	Vinyl chloride	VOCs
146	2-Butanone	VOCs
147	Acetone	VOCs
148	m,p-Xylene	VOCs
149	o-Xylene	VOCs
150	Boron	Postfiltered Metals
151	Antimony	Postfiltered Metals
152	Arsenic	Postfiltered Metals
153	Beryllium	Postfiltered Metals
154	Cadmium	Postfiltered Metals
155	Chromium	Postfiltered Metals
156	Copper	Postfiltered Metals
157	Lead	Postfiltered Metals
158	Nickel	Postfiltered Metals
159	Selenium	Postfiltered Metals
160	Silver	Postfiltered Metals
161	Thallium	Postfiltered Metals
162	Zinc	Postfiltered Metals
163	T/R Hydrocarbons: C13-C2	TPH
164	T/R Hydrocarbons: C23-C3	TPH
165	T/R Hydrocarbons: C4-C12	TPH
166	T/R Hydrocarbons:>C32	TPH

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
1	Location 1-Drum 1	1/27/2010 3:35:26 PM	Soil	EPA 6010B	Lead	1.6	mg/Kg	0.11	5.0
2	Location 1-Drum 1	1/27/2010 10:23:02 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
3	Location 1-Drum 1	1/27/2010 10:23:02 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	4.2	mg/Kg	1.0	1.0
4	Location 1-Drum 1	1/27/2010 11:13:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
5	Location 1-Drum 1	1/27/2010 10:23:02 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	4.3	mg/Kg	1.0	1.0
6	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,1,1,2-Tetrachloroethane	ND	µg/Kg	1.7	5.0
7	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,1,1-Trichloroethane	ND	µg/Kg	0.64	5.0
8	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,1,2,2-Tetrachloroethane	ND	µg/Kg	1.6	5.0
9	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,1,2-Trichloroethane	ND	µg/Kg	1.6	5.0
10	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,1-Dichloroethane	ND	µg/Kg	0.50	5.0
11	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,1-Dichloroethene	ND	µg/Kg	1.3	5.0
12	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,1-Dichloropropene	ND	µg/Kg	1.5	5.0
13	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2,3-Trichlorobenzene	ND	µg/Kg	1.0	5.0
14	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2,3-Trichloropropane	ND	µg/Kg	0.75	5.0
15	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2,4-Trichlorobenzene	ND	µg/Kg	1.3	5.0
16	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2,4-Trimethylbenzene	ND	µg/Kg	0.86	5.0
17	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2-Dibromo-3-chloropropane	ND	µg/Kg	1.9	10
18	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2-Dibromoethane	ND	µg/Kg	1.5	5.0
19	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2-Dichlorobenzene	ND	µg/Kg	0.83	5.0
20	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2-Dichloroethane	ND	µg/Kg	1.2	5.0
21	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,2-Dichloropropane	ND	µg/Kg	1.6	5.0
22	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,3,5-Trimethylbenzene	ND	µg/Kg	1.0	5.0
23	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,3-Dichlorobenzene	ND	µg/Kg	1.0	5.0
24	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,3-Dichloropropane	ND	µg/Kg	1.1	5.0
25	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	1,4-Dichlorobenzene	ND	µg/Kg	1.2	5.0
26	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	2,2-Dichloropropane	ND	µg/Kg	0.87	5.0
27	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	2-Chlorotoluene	ND	µg/Kg	0.66	5.0
28	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	4-Chlorotoluene	ND	µg/Kg	0.68	5.0
29	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	4-Isopropyltoluene	ND	µg/Kg	0.57	5.0
30	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Benzene	ND	µg/Kg	0.82	5.0
31	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Bromobenzene	ND	µg/Kg	1.6	5.0
32	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Bromodichloromethane	ND	µg/Kg	0.85	5.0
33	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Bromoform	ND	µg/Kg	1.2	5.0
34	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Bromomethane	ND	µg/Kg	0.87	5.0
35	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Carbon tetrachloride	ND	µg/Kg	1.3	5.0
36	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Chlorobenzene	ND	µg/Kg	0.90	5.0
37	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Chloroethane	ND	µg/Kg	1.3	5.0
38	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Chloroform	ND	µg/Kg	0.62	5.0
39	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Chloromethane	ND	µg/Kg	0.82	5.0
40	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	cis-1,2-Dichloroethene	ND	µg/Kg	1.2	5.0
41	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	cis-1,3-Dichloropropene	ND	µg/Kg	1.3	5.0
42	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Dibromochloromethane	ND	µg/Kg	0.68	5.0
43	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Dibromomethane	ND	µg/Kg	1.7	5.0
44	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Dichlorodifluoromethane	ND	µg/Kg	0.60	5.0
45	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Ethylbenzene	ND	µg/Kg	0.91	5.0
46	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Hexachlorobutadiene	ND	µg/Kg	3.4	5.0
47	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Isopropylbenzene	ND	µg/Kg	1.2	5.0
48	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	m,p-Xylene	ND	µg/Kg	1.7	10
49	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Methylene chloride	ND	µg/Kg	5.0	5.0
50	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Naphthalene	ND	µg/Kg	1.7	5.0
51	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	n-Butylbenzene	ND	µg/Kg	1.0	5.0
52	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	n-Propylbenzene	ND	µg/Kg	0.90	5.0
53	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	o-Xylene	ND	µg/Kg	1.0	5.0
54	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	sec-Butylbenzene	ND	µg/Kg	0.85	5.0
55	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Styrene	ND	µg/Kg	0.90	5.0
56	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	tert-Butylbenzene	ND	µg/Kg	0.61	5.0
57	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Tetrachloroethene	ND	µg/Kg	1.1	5.0
58	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Toluene	ND	µg/Kg	0.83	5.0
59	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	trans-1,2-Dichloroethene	ND	µg/Kg	0.99	5.0
60	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Trichloroethene	ND	µg/Kg	2.0	5.0

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
61	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Trichlorofluoromethane	ND	µg/Kg	1.2	5.0
62	Location 1-Drum 1	1/27/2010 11:49:00 AM	Soil	EPA 8260B	Vinyl chloride	ND	µg/Kg	0.59	5.0
63	Location 2-Drum 1	1/27/2010 3:36:14 PM	Soil	EPA 6010B	Lead	2.0	mg/Kg	0.11	5.0
64	Location 2-Drum 1	1/27/2010 10:31:35 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	5.5	mg/Kg	1.0	1.0
65	Location 2-Drum 1	1/27/2010 10:31:35 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	15	mg/Kg	1.0	1.0
66	Location 2-Drum 1	1/27/2010 11:42:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
67	Location 2-Drum 1	1/27/2010 10:31:35 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	20	mg/Kg	1.0	1.0
68	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,1,1,2-Tetrachloroethane	ND	µg/Kg	1.7	5.0
69	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,1,1-Trichloroethane	ND	µg/Kg	0.64	5.0
70	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,1,2,2-Tetrachloroethane	ND	µg/Kg	1.6	5.0
71	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,1,2-Trichloroethane	ND	µg/Kg	1.6	5.0
72	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,1-Dichloroethane	ND	µg/Kg	0.50	5.0
73	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,1-Dichloroethene	ND	µg/Kg	1.3	5.0
74	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,1-Dichloropropene	ND	µg/Kg	1.5	5.0
75	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2,3-Trichlorobenzene	ND	µg/Kg	1.0	5.0
76	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2,3-Trichloropropane	ND	µg/Kg	0.75	5.0
77	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2,4-Trichlorobenzene	ND	µg/Kg	1.3	5.0
78	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2,4-Trimethylbenzene	ND	µg/Kg	0.86	5.0
79	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2-Dibromo-3-chloropropane	ND	µg/Kg	1.9	10
80	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2-Dibromoethane	ND	µg/Kg	1.5	5.0
81	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2-Dichlorobenzene	ND	µg/Kg	0.83	5.0
82	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2-Dichloroethane	ND	µg/Kg	1.2	5.0
83	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,2-Dichloropropane	ND	µg/Kg	1.6	5.0
84	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,3,5-Trimethylbenzene	ND	µg/Kg	1.0	5.0
85	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,3-Dichlorobenzene	ND	µg/Kg	1.0	5.0
86	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,3-Dichloropropane	ND	µg/Kg	1.1	5.0
87	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	1,4-Dichlorobenzene	ND	µg/Kg	1.2	5.0
88	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	2,2-Dichloropropane	ND	µg/Kg	0.87	5.0
89	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	2-Chlorotoluene	ND	µg/Kg	0.66	5.0
90	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	4-Chlorotoluene	ND	µg/Kg	0.68	5.0
91	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	4-Isopropyltoluene	ND	µg/Kg	0.57	5.0
92	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Benzene	ND	µg/Kg	0.82	5.0
93	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Bromobenzene	ND	µg/Kg	1.6	5.0
94	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Bromodichloromethane	ND	µg/Kg	0.85	5.0
95	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Bromoform	ND	µg/Kg	1.2	5.0
96	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Bromomethane	ND	µg/Kg	0.87	5.0
97	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Carbon tetrachloride	ND	µg/Kg	1.3	5.0
98	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Chlorobenzene	ND	µg/Kg	0.90	5.0
99	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Chloroethane	ND	µg/Kg	1.3	5.0
100	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Chloroform	ND	µg/Kg	0.62	5.0
101	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Chloromethane	ND	µg/Kg	0.82	5.0
102	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	cis-1,2-Dichloroethene	ND	µg/Kg	1.2	5.0
103	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	cis-1,3-Dichloropropene	ND	µg/Kg	1.3	5.0
104	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Dibromochloromethane	ND	µg/Kg	0.68	5.0
105	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Dibromomethane	ND	µg/Kg	1.7	5.0
106	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Dichlorodifluoromethane	ND	µg/Kg	0.60	5.0
107	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Ethylbenzene	ND	µg/Kg	0.91	5.0
108	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Hexachlorobutadiene	ND	µg/Kg	3.4	5.0
109	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Isopropylbenzene	ND	µg/Kg	1.2	5.0
110	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	m,p-Xylene	ND	µg/Kg	1.7	10
111	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Methylene chloride	ND	µg/Kg	5.0	5.0
112	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Naphthalene	ND	µg/Kg	1.7	5.0
113	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	n-Butylbenzene	ND	µg/Kg	1.0	5.0
114	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	n-Propylbenzene	ND	µg/Kg	0.90	5.0
115	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	o-Xylene	ND	µg/Kg	1.0	5.0
116	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	sec-Butylbenzene	ND	µg/Kg	0.85	5.0
117	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Styrene	ND	µg/Kg	0.90	5.0
118	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	tert-Butylbenzene	ND	µg/Kg	0.61	5.0
119	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Tetrachloroethene	ND	µg/Kg	1.1	5.0
120	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Toluene	ND	µg/Kg	0.83	5.0

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
121	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	trans-1,2-Dichloroethene	ND	µg/Kg	0.99	5.0
122	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Trichloroethene	ND	µg/Kg	2.0	5.0
123	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Trichlorofluoromethane	ND	µg/Kg	1.2	5.0
124	Location 2-Drum 1	1/27/2010 12:04:00 PM	Soil	EPA 8260B	Vinyl chloride	ND	µg/Kg	0.59	5.0
125	1087-201-W	1/28/2010	Groundwater	EPA 180.1	Turbidity	48000	NTU	100	100
126	1087-201-W	1/30/2010 5:12:00 PM	Groundwater	EPA 300.0	Chloride	540	mg/L	13	50
127	1087-201-W	1/27/2010 3:57:00 PM	Groundwater	EPA 300.0	Nitrogen, Nitrate (As N)	ND	mg/L	0.36	1.0
128	1087-201-W	1/27/2010 3:57:00 PM	Groundwater	EPA 300.0	Nitrogen, Nitrite	ND	mg/L	0.47	1.0
129	1087-201-W	1/30/2010 5:12:00 PM	Groundwater	EPA 300.0	Sulfate	2800	mg/L	22	100
130	1087-201-W	1/29/2010 3:32:00 PM	Groundwater	EPA 314.0	Perchlorate	ND	µg/L	5.2	10
131	1087-201-W	1/27/2010	Groundwater	SM4500-H+B	pH	7.6	pH Units	0.10	0.10
132	1087-201-W	1/27/2010	Groundwater	SM2540F	Settleable Matter	180	ml/L	0.11	0.11
133	1087-201-W	2/1/2010 8:22:51 PM	Groundwater	SM2540C	Total Dissolved Solids (Resid	6800	mg/L	22	67
134	1087-201-W	1/29/2010 10:00:00 AM	Groundwater	SM2540D	Suspended Solids (Residue,	14000	mg/L	100	100
135	1087-201-W	2/4/2010	Groundwater	EPA 1664 _HE	Oil & Grease	1.1	mg/L	0.67	4.7
136	1087-201-W	2/5/2010	Groundwater	EPA 1664_SGT/	Total Petroleum Hydrocarbon	0.57	mg/L	0.56	2.3
137	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	1,2,4-Trichlorobenzene	ND	µg/L	3.7	10
138	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	1,2-Dichlorobenzene	ND	µg/L	2.5	10
139	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	1,2-Diphenylhydrazine	ND	µg/L	4.4	10
140	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	1,3-Dichlorobenzene	ND	µg/L	2.6	10
141	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	1,4-Dichlorobenzene	ND	µg/L	2.6	10
142	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2,4,6-Trichlorophenol	ND	µg/L	3.4	10
143	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2,4-Dichlorophenol	ND	µg/L	3.0	10
144	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2,4-Dimethylphenol	ND	µg/L	2.7	10
145	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2,4-Dinitrophenol	ND	µg/L	5.6	50
146	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2,4-Dinitrotoluene	ND	µg/L	3.7	10
147	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2,6-Dinitrotoluene	ND	µg/L	3.8	10
148	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2-Chloronaphthalene	ND	µg/L	3.8	10
149	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2-Chlorophenol	ND	µg/L	2.3	10
150	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	2-Nitrophenol	ND	µg/L	3.1	10
151	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	3,3'-Dichlorobenzidine	ND	µg/L	3.6	20
152	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	4,6-Dinitro-2-methylphenol	ND	µg/L	4.2	50
153	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	4-Bromophenyl-phenylether	ND	µg/L	4.9	10
154	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	4-Chloro-3-methylphenol	ND	µg/L	3.2	50
155	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	4-Chlorophenyl-phenylether	ND	µg/L	4.8	10
156	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	4-Nitrophenol	ND	µg/L	3.0	50
157	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Acenaphthene	ND	µg/L	3.3	10
158	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Acenaphthylene	ND	µg/L	3.2	10
159	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Anthracene	ND	µg/L	4.1	10
160	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Benzidine (M)	ND	µg/L	5.9	50
161	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Benzo(a)anthracene	ND	µg/L	3.7	10
162	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Benzo(a)pyrene	ND	µg/L	3.6	10
163	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Benzo(b)fluoranthene	ND	µg/L	4.2	10
164	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Benzo(g,h,i)perylene	ND	µg/L	5.8	10
165	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Benzo(k)fluoranthene	ND	µg/L	4.2	10
166	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Bis(2-chloroethoxy)methane	ND	µg/L	3.0	10
167	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Bis(2-chloroethyl)ether	ND	µg/L	2.6	10
168	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Bis(2-chloroisopropyl)ether	ND	µg/L	2.5	10
169	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Bis(2-ethylhexyl)phthalate	ND	µg/L	5.0	10
170	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Butylbenzylphthalate	ND	µg/L	4.4	10
171	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Chrysene	ND	µg/L	3.2	10
172	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Dibenz(a,h)anthracene	ND	µg/L	4.1	10
173	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Diethylphthalate	ND	µg/L	4.0	10
174	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Dimethylphthalate	ND	µg/L	3.5	10
175	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Di-n-butylphthalate	ND	µg/L	4.8	10
176	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Di-n-octylphthalate	ND	µg/L	5.0	10
177	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Fluoranthene	ND	µg/L	4.1	10
178	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Fluorene	ND	µg/L	3.6	10
179	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Hexachlorobenzene	ND	µg/L	4.5	10
180	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Hexachlorobutadiene	ND	µg/L	4.0	20

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
181	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Hexachlorocyclopentadiene	ND	µg/L	4.8	10
182	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Hexachloroethane	ND	µg/L	2.7	10
183	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Indeno(1,2,3-cd)pyrene	ND	µg/L	4.9	10
184	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Isophorone	ND	µg/L	3.0	10
185	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Naphthalene	ND	µg/L	2.7	10
186	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Nitrobenzene	ND	µg/L	2.8	10
187	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	N-Nitrosodimethylamine	ND	µg/L	2.5	50
188	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	N-Nitrosodi-n-propylamine	ND	µg/L	1.2	10
189	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	N-Nitrosodiphenylamine	ND	µg/L	3.8	10
190	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Pentachlorophenol	ND	µg/L	4.5	50
191	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Phenanthrene	ND	µg/L	4.4	10
192	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Phenol	ND	µg/L	1.6	10
193	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 625	Pyrene	ND	µg/L	3.7	10
194	1087-201-W	2/2/2010 12:20:00 AM	Groundwater	EPA 8270C(M)	1,4-Dioxane	ND	µg/L	1.9	2.0
195	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	4,4'-DDD	ND	µg/L	0.0050	0.050
196	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	4,4'-DDE	ND	µg/L	0.0050	0.050
197	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	4,4'-DDT	ND	µg/L	0.0050	0.050
198	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Aldrin	ND	µg/L	0.0050	0.025
199	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	alpha-BHC	ND	µg/L	0.0050	0.025
200	1087-201-W	1/28/2010 5:55:00 PM	Groundwater	EPA 608	Aroclor 1016	ND	µg/L	0.10	0.50
201	1087-201-W	1/28/2010 5:55:00 PM	Groundwater	EPA 608	Aroclor 1221	ND	µg/L	0.10	1.0
202	1087-201-W	1/28/2010 5:55:00 PM	Groundwater	EPA 608	Aroclor 1232	ND	µg/L	0.10	0.50
203	1087-201-W	1/28/2010 5:55:00 PM	Groundwater	EPA 608	Aroclor 1242	ND	µg/L	0.10	0.50
204	1087-201-W	1/28/2010 5:55:00 PM	Groundwater	EPA 608	Aroclor 1248	ND	µg/L	0.10	0.50
205	1087-201-W	1/28/2010 5:55:00 PM	Groundwater	EPA 608	Aroclor 1254	ND	µg/L	0.10	0.50
206	1087-201-W	1/28/2010 5:55:00 PM	Groundwater	EPA 608	Aroclor 1260	ND	µg/L	0.10	0.50
207	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	beta-BHC	ND	µg/L	0.0050	0.025
208	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Chlordane	ND	µg/L	0.050	0.25
209	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	delta-BHC	ND	µg/L	0.0050	0.025
210	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Dieldrin	ND	µg/L	0.0050	0.050
211	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Endosulfan I	ND	µg/L	0.0050	0.025
212	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Endosulfan II	ND	µg/L	0.0050	0.050
213	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Endosulfan sulfate	ND	µg/L	0.0050	0.050
214	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Endrin	ND	µg/L	0.0050	0.050
215	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Endrin aldehyde	ND	µg/L	0.0050	0.050
216	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	gamma-BHC	ND	µg/L	0.0050	0.025
217	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Heptachlor	ND	µg/L	0.0050	0.025
218	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Heptachlor epoxide	ND	µg/L	0.0050	0.025
219	1087-201-W	1/28/2010 7:34:00 PM	Groundwater	EPA 608	Toxaphene	ND	µg/L	0.50	2.5
220	1087-201-W	1/29/2010 5:09:31 PM	Groundwater	EPA 8015B(M)	DRO	ND	mg/L	0.050	0.050
221	1087-201-W	1/29/2010 5:09:31 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/L	0.050	0.050
222	1087-201-W	1/29/2010 5:09:31 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/L	0.050	0.050
223	1087-201-W	1/29/2010 5:09:31 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/L	0.050	0.050
224	1087-201-W	1/27/2010	Groundwater	EPA 7196A	Chromium, Hexavalent	ND	mg/L	0.0086	0.010
225	1087-201-W	2/1/2010 11:19:36 AM	Groundwater	EPA 200.7	Boron	4.3	mg/L	0.34	0.50
226	1087-201-W	2/4/2010 7:53:12 PM	Groundwater	EPA 200.8	Antimony	2.7	µg/L	0.85	2.5
227	1087-201-W	2/2/2010 2:14:54 PM	Groundwater	EPA 200.8	Arsenic	29	µg/L	0.044	1.0
228	1087-201-W	2/2/2010 7:23:49 PM	Groundwater	EPA 200.8	Beryllium	ND	µg/L	7.8	100
229	1087-201-W	2/2/2010 2:14:54 PM	Groundwater	EPA 200.8	Cadmium	12	µg/L	0.025	0.50
230	1087-201-W	2/2/2010 2:14:54 PM	Groundwater	EPA 200.8	Chromium	110	µg/L	0.079	0.50
231	1087-201-W	2/2/2010 9:04:35 PM	Groundwater	EPA 200.8	Copper	61	µg/L	1.6	5.0
232	1087-201-W	2/2/2010 2:14:54 PM	Groundwater	EPA 200.8	Lead	31	µg/L	0.10	1.0
233	1087-201-W	2/2/2010 2:14:54 PM	Groundwater	EPA 200.8	Nickel	110	µg/L	0.13	1.0
234	1087-201-W	2/2/2010 9:04:35 PM	Groundwater	EPA 200.8	Selenium	40	µg/L	1.6	2.5
235	1087-201-W	2/2/2010 2:14:54 PM	Groundwater	EPA 200.8	Silver	0.18	µg/L	0.027	0.50
236	1087-201-W	2/2/2010 2:14:54 PM	Groundwater	EPA 200.8	Thallium	0.32	µg/L	0.080	0.50
237	1087-201-W	2/2/2010 9:04:35 PM	Groundwater	EPA 200.8	Zinc	540	µg/L	7.1	50
238	1087-201-W	2/1/2010 11:51:05 AM	Groundwater	EPA 245.1	Mercury	ND	µg/L	0.40	1.0
239	1087-201-W	1/30/2010	Groundwater	SM2340C	Hardness (As CaCO3)	3900	mg/L	82	200
240	1087-201-W	2/2/2010	Groundwater	SM4500-S= D	Sulfide	2.3	mg/L	1.5	3.0

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
241	1087-201-W	2/1/2010	Groundwater	SM4500-CN E	Cyanide	ND	mg/L	0.0030	0.010
242	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,1,1-Trichloroethane	ND	µg/L	0.27	0.50
243	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,1,2,2-Tetrachloroethane	ND	µg/L	0.35	0.50
244	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,1,2-Trichloroethane	ND	µg/L	0.43	0.50
245	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,1-Dichloroethane	ND	µg/L	0.17	0.50
246	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,1-Dichloroethene	ND	µg/L	0.19	0.50
247	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,2-Dichlorobenzene	ND	µg/L	0.27	0.50
248	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,2-Dichloroethane	ND	µg/L	0.16	0.50
249	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,2-Dichloropropane	ND	µg/L	0.20	0.50
250	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,3-Dichlorobenzene	ND	µg/L	0.28	0.50
251	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	1,4-Dichlorobenzene	ND	µg/L	0.24	0.50
252	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	2-Chloroethyl vinyl ether	ND	µg/L	0.14	0.50
253	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Acrolein	ND	µg/L	1.5	10
254	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Acrylonitrile	ND	µg/L	1.4	10
255	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Benzene	ND	µg/L	0.17	0.50
256	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Bromodichloromethane	ND	µg/L	0.39	0.50
257	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Bromoform	ND	µg/L	0.30	0.50
258	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Bromomethane	ND	µg/L	0.32	0.50
259	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Carbon tetrachloride	ND	µg/L	0.38	0.50
260	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Chlorobenzene	ND	µg/L	0.28	0.50
261	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Chloroethane	ND	µg/L	0.35	0.50
262	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Chloroform	ND	µg/L	0.23	0.50
263	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Chloromethane	ND	µg/L	0.32	0.50
264	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	cis-1,3-Dichloropropene	ND	µg/L	0.29	0.50
265	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Dibromochloromethane	ND	µg/L	0.40	0.50
266	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Ethylbenzene	ND	µg/L	0.22	0.50
267	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Methylene chloride	ND	µg/L	1.0	1.0
268	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Tetrachloroethene	ND	µg/L	0.19	0.50
269	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Toluene	ND	µg/L	0.22	0.50
270	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	trans-1,2-Dichloroethene	ND	µg/L	0.22	0.50
271	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	trans-1,3-Dichloropropene	ND	µg/L	0.35	0.50
272	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Trichloroethene	ND	µg/L	0.15	0.50
273	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 624	Vinyl chloride	ND	µg/L	0.34	0.50
274	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 8260B	2-Butanone	ND	µg/L	4.0	10
275	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 8260B	Acetone	ND	µg/L	5.0	10
276	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 8260B	m,p-Xylene	ND	µg/L	0.49	1.0
277	1087-201-W	1/28/2010 3:07:00 PM	Groundwater	EPA 8260B	o-Xylene	ND	µg/L	0.27	0.50
278	1087-201-W	1/27/2010 3:33:00 PM	Groundwater	EPA 8015B(M)	GRO	ND	mg/L	0.050	0.050
279	1087-201-W	1/27/2010 3:33:00 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/L	0.050	0.050
280	1087-201-W	1/27/2010 3:33:00 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/L	0.050	0.20
281	1087-201-W	2/2/2010 12:10:07 PM	Groundwater	EPA 200.7	Boron	3.0	mg/L	0.068	0.10
282	1087-201-W	2/4/2010 7:11:09 PM	Groundwater	EPA 200.8	Antimony	2.4	µg/L	0.17	0.50
283	1087-201-W	2/2/2010 1:41:25 PM	Groundwater	EPA 200.8	Arsenic	8.3	µg/L	0.044	1.0
284	1087-201-W	2/2/2010 5:31:21 PM	Groundwater	EPA 200.8	Beryllium	ND	µg/L	7.8	100
285	1087-201-W	2/2/2010 1:41:25 PM	Groundwater	EPA 200.8	Cadmium	0.29	µg/L	0.025	0.50
286	1087-201-W	2/2/2010 1:41:25 PM	Groundwater	EPA 200.8	Chromium	0.34	µg/L	0.079	0.50
287	1087-201-W	2/2/2010 1:41:25 PM	Groundwater	EPA 200.8	Copper	17	µg/L	0.32	1.0
288	1087-201-W	2/3/2010 7:48:45 PM	Groundwater	EPA 200.8	Lead	0.15	µg/L	0.10	1.0
289	1087-201-W	2/2/2010 1:41:25 PM	Groundwater	EPA 200.8	Nickel	17	µg/L	0.13	1.0
290	1087-201-W	2/2/2010 3:43:11 PM	Groundwater	EPA 200.8	Selenium	31	µg/L	1.6	2.5
291	1087-201-W	2/2/2010 1:41:25 PM	Groundwater	EPA 200.8	Silver	0.098	µg/L	0.027	0.50
292	1087-201-W	2/2/2010 1:41:25 PM	Groundwater	EPA 200.8	Thallium	ND	µg/L	0.080	0.50
293	1087-201-W	2/2/2010 1:41:25 PM	Groundwater	EPA 200.8	Zinc	22	µg/L	1.4	10
294	1087-201-WD	1/28/2010	Groundwater	EPA 180.1	Turbidity	75000	NTU	100	100
295	1087-201-WD	1/30/2010 5:34:00 PM	Groundwater	EPA 300.0	Chloride	590	mg/L	13	50
296	1087-201-WD	1/27/2010 4:09:00 PM	Groundwater	EPA 300.0	Nitrogen, Nitrate (As N)	ND	mg/L	0.36	1.0
297	1087-201-WD	1/27/2010 4:09:00 PM	Groundwater	EPA 300.0	Nitrogen, Nitrite	ND	mg/L	0.47	1.0
298	1087-201-WD	1/30/2010 5:34:00 PM	Groundwater	EPA 300.0	Sulfate	2900	mg/L	22	100
299	1087-201-WD	1/29/2010 3:49:00 PM	Groundwater	EPA 314.0	Perchlorate	ND	µg/L	5.2	10
300	1087-201-WD	1/27/2010	Groundwater	SM4500-H+B	pH	7.3	pH Units	0.10	0.10

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
301	1087-201-WD	1/27/2010	Groundwater	SM2540F	Settleable Matter	270	ml/L	0.10	0.10
302	1087-201-WD	2/1/2010 8:22:51 PM	Groundwater	SM2540C	Total Dissolved Solids (Resid	5600	mg/L	17	50
303	1087-201-WD	1/29/2010 10:00:00 AM	Groundwater	SM2540D	Suspended Solids (Residue,	67000	mg/L	330	330
304	1087-201-WD	2/4/2010	Groundwater	EPA 1664 _HE	Oil & Grease	1.6	mg/L	0.69	4.9
305	1087-201-WD	2/5/2010	Groundwater	EPA 1664_SGT/	Total Petroleum Hydrocarbon	15	mg/L	0.60	2.4
306	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	1,2,4-Trichlorobenzene	ND	µg/L	3.7	10
307	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	1,2-Dichlorobenzene	ND	µg/L	2.5	10
308	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	1,2-Diphenylhydrazine	ND	µg/L	4.4	10
309	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	1,3-Dichlorobenzene	ND	µg/L	2.6	10
310	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	1,4-Dichlorobenzene	ND	µg/L	2.6	10
311	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2,4,6-Trichlorophenol	ND	µg/L	3.4	10
312	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2,4-Dichlorophenol	ND	µg/L	3.0	10
313	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2,4-Dimethylphenol	ND	µg/L	2.7	10
314	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2,4-Dinitrophenol	ND	µg/L	5.6	50
315	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2,4-Dinitrotoluene	ND	µg/L	3.7	10
316	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2,6-Dinitrotoluene	ND	µg/L	3.8	10
317	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2-Chloronaphthalene	ND	µg/L	3.8	10
318	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2-Chlorophenol	ND	µg/L	2.3	10
319	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	2-Nitrophenol	ND	µg/L	3.1	10
320	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	3,3'-Dichlorobenzidine	ND	µg/L	3.6	20
321	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	4,6-Dinitro-2-methylphenol	ND	µg/L	4.2	50
322	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	4-Bromophenyl-phenylether	ND	µg/L	4.9	10
323	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	4-Chloro-3-methylphenol	ND	µg/L	3.2	50
324	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	4-Chlorophenyl-phenylether	ND	µg/L	4.8	10
325	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	4-Nitrophenol	ND	µg/L	3.0	50
326	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Acenaphthene	ND	µg/L	3.3	10
327	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Acenaphthylene	ND	µg/L	3.2	10
328	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Anthracene	ND	µg/L	4.1	10
329	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Benzidine (M)	ND	µg/L	5.9	50
330	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Benzo(a)anthracene	ND	µg/L	3.7	10
331	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Benzo(a)pyrene	ND	µg/L	3.6	10
332	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Benzo(b)fluoranthene	ND	µg/L	4.2	10
333	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Benzo(g,h,i)perylene	ND	µg/L	5.8	10
334	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Benzo(k)fluoranthene	ND	µg/L	4.2	10
335	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Bis(2-chloroethoxy)methane	ND	µg/L	3.0	10
336	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Bis(2-chloroethyl)ether	ND	µg/L	2.6	10
337	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Bis(2-chloroisopropyl)ether	ND	µg/L	2.5	10
338	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Bis(2-ethylhexyl)phthalate	ND	µg/L	5.0	10
339	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Butylbenzylphthalate	ND	µg/L	4.4	10
340	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Chrysene	ND	µg/L	3.2	10
341	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Dibenz(a,h)anthracene	ND	µg/L	4.1	10
342	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Diethylphthalate	ND	µg/L	4.0	10
343	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Dimethylphthalate	ND	µg/L	3.5	10
344	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Di-n-butylphthalate	ND	µg/L	4.8	10
345	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Di-n-octylphthalate	ND	µg/L	5.0	10
346	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Fluoranthene	ND	µg/L	4.1	10
347	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Fluorene	ND	µg/L	3.6	10
348	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Hexachlorobenzene	ND	µg/L	4.5	10
349	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Hexachlorobutadiene	ND	µg/L	4.0	20
350	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Hexachlorocyclopentadiene	ND	µg/L	4.8	10
351	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Hexachloroethane	ND	µg/L	2.7	10
352	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Indeno(1,2,3-cd)pyrene	ND	µg/L	4.9	10
353	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Isophorone	ND	µg/L	3.0	10
354	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Naphthalene	ND	µg/L	2.7	10
355	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Nitrobenzene	ND	µg/L	2.8	10
356	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	N-Nitrosodimethylamine	ND	µg/L	2.5	50
357	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	N-Nitrosodi-n-propylamine	ND	µg/L	1.2	10
358	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	N-Nitrosodiphenylamine	ND	µg/L	3.8	10
359	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Pentachlorophenol	ND	µg/L	4.5	50
360	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Phenanthrene	ND	µg/L	4.4	10

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
361	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Phenol	ND	µg/L	1.6	10
362	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 625	Pyrene	ND	µg/L	3.7	10
363	1087-201-WD	2/2/2010 12:48:00 AM	Groundwater	EPA 8270C(M)	1,4-Dioxane	ND	µg/L	1.9	2.0
364	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	4,4'-DDD	ND	µg/L	0.0050	0.050
365	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	4,4'-DDE	ND	µg/L	0.0050	0.050
366	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	4,4'-DDT	ND	µg/L	0.0050	0.050
367	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Aldrin	ND	µg/L	0.0050	0.025
368	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	alpha-BHC	ND	µg/L	0.0050	0.025
369	1087-201-WD	1/28/2010 6:25:00 PM	Groundwater	EPA 608	Aroclor 1016	ND	µg/L	0.10	0.50
370	1087-201-WD	1/28/2010 6:25:00 PM	Groundwater	EPA 608	Aroclor 1221	ND	µg/L	0.10	1.0
371	1087-201-WD	1/28/2010 6:25:00 PM	Groundwater	EPA 608	Aroclor 1232	ND	µg/L	0.10	0.50
372	1087-201-WD	1/28/2010 6:25:00 PM	Groundwater	EPA 608	Aroclor 1242	ND	µg/L	0.10	0.50
373	1087-201-WD	1/28/2010 6:25:00 PM	Groundwater	EPA 608	Aroclor 1248	ND	µg/L	0.10	0.50
374	1087-201-WD	1/28/2010 6:25:00 PM	Groundwater	EPA 608	Aroclor 1254	ND	µg/L	0.10	0.50
375	1087-201-WD	1/28/2010 6:25:00 PM	Groundwater	EPA 608	Aroclor 1260	ND	µg/L	0.10	0.50
376	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	beta-BHC	ND	µg/L	0.0050	0.025
377	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Chlordane	ND	µg/L	0.050	0.25
378	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	delta-BHC	ND	µg/L	0.0050	0.025
379	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Dieldrin	ND	µg/L	0.0050	0.050
380	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Endosulfan I	ND	µg/L	0.0050	0.025
381	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Endosulfan II	ND	µg/L	0.0050	0.050
382	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Endosulfan sulfate	ND	µg/L	0.0050	0.050
383	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Endrin	ND	µg/L	0.0050	0.050
384	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Endrin aldehyde	ND	µg/L	0.0050	0.050
385	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	gamma-BHC	ND	µg/L	0.0050	0.025
386	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Heptachlor	ND	µg/L	0.0050	0.025
387	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Heptachlor epoxide	ND	µg/L	0.0050	0.025
388	1087-201-WD	1/28/2010 7:48:00 PM	Groundwater	EPA 608	Toxaphene	ND	µg/L	0.50	2.5
389	1087-201-WD	1/29/2010 5:45:19 PM	Groundwater	EPA 8015B(M)	DRO	0.26	mg/L	0.083	0.083
390	1087-201-WD	1/29/2010 5:45:19 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	0.13	mg/L	0.083	0.083
391	1087-201-WD	1/29/2010 5:45:19 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	0.15	mg/L	0.083	0.083
392	1087-201-WD	1/29/2010 5:45:19 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons:>C32	0.16	mg/L	0.083	0.083
393	1087-201-WD	1/27/2010	Groundwater	EPA 7196A	Chromium, Hexavalent	ND	mg/L	0.0086	0.010
394	1087-201-WD	2/1/2010 11:23:53 AM	Groundwater	EPA 200.7	Boron	3.3	mg/L	0.34	0.50
395	1087-201-WD	2/4/2010 8:01:37 PM	Groundwater	EPA 200.8	Antimony	ND	µg/L	0.85	2.5
396	1087-201-WD	2/2/2010 9:13:00 PM	Groundwater	EPA 200.8	Arsenic	69	µg/L	0.22	5.0
397	1087-201-WD	2/2/2010 7:32:11 PM	Groundwater	EPA 200.8	Beryllium	ND	µg/L	7.8	100
398	1087-201-WD	2/2/2010 9:13:00 PM	Groundwater	EPA 200.8	Cadmium	49	µg/L	0.12	2.5
399	1087-201-WD	2/2/2010 8:14:14 PM	Groundwater	EPA 200.8	Chromium	880	µg/L	4.0	25
400	1087-201-WD	2/2/2010 8:14:14 PM	Groundwater	EPA 200.8	Copper	570	µg/L	16	50
401	1087-201-WD	2/2/2010 2:23:17 PM	Groundwater	EPA 200.8	Lead	3.3	µg/L	0.10	1.0
402	1087-201-WD	2/3/2010 12:49:38 PM	Groundwater	EPA 200.8	Nickel	1600	µg/L	2.6	20
403	1087-201-WD	2/2/2010 9:13:00 PM	Groundwater	EPA 200.8	Selenium	23	µg/L	1.6	2.5
404	1087-201-WD	2/2/2010 9:13:00 PM	Groundwater	EPA 200.8	Silver	3.1	µg/L	0.14	2.5
405	1087-201-WD	2/2/2010 2:23:17 PM	Groundwater	EPA 200.8	Thallium	1.7	µg/L	0.080	0.50
406	1087-201-WD	2/2/2010 8:31:01 PM	Groundwater	EPA 200.8	Zinc	1600	µg/L	29	200
407	1087-201-WD	2/1/2010 11:53:22 AM	Groundwater	EPA 245.1	Mercury	1.9	µg/L	0.40	1.0
408	1087-201-WD	1/30/2010	Groundwater	SM2340C	Hardness (As CaCO3)	12000	mg/L	820	2000
409	1087-201-WD	2/2/2010	Groundwater	SM4500-S= D	Sulfide	2.9	mg/L	1.5	3.0
410	1087-201-WD	2/1/2010	Groundwater	SM4500-CN E	Cyanide	ND	mg/L	0.0030	0.010
411	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,1,1-Trichloroethane	ND	µg/L	0.27	0.50
412	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,1,2,2-Tetrachloroethane	ND	µg/L	0.35	0.50
413	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,1,2-Trichloroethane	ND	µg/L	0.43	0.50
414	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,1-Dichloroethane	ND	µg/L	0.17	0.50
415	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,1-Dichloroethene	ND	µg/L	0.19	0.50
416	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,2-Dichlorobenzene	ND	µg/L	0.27	0.50
417	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,2-Dichloroethane	ND	µg/L	0.16	0.50
418	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,2-Dichloropropane	ND	µg/L	0.20	0.50
419	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,3-Dichlorobenzene	ND	µg/L	0.28	0.50
420	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	1,4-Dichlorobenzene	ND	µg/L	0.24	0.50

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
421	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	2-Chloroethyl vinyl ether	ND	µg/L	0.14	0.50
422	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Acrolein	ND	µg/L	1.5	10
423	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Acrylonitrile	ND	µg/L	1.4	10
424	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Benzene	0.81	µg/L	0.17	0.50
425	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Bromodichloromethane	ND	µg/L	0.39	0.50
426	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Bromoform	ND	µg/L	0.30	0.50
427	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Bromomethane	ND	µg/L	0.32	0.50
428	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Carbon tetrachloride	ND	µg/L	0.38	0.50
429	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Chlorobenzene	ND	µg/L	0.28	0.50
430	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Chloroethane	ND	µg/L	0.35	0.50
431	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Chloroform	ND	µg/L	0.23	0.50
432	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Chloromethane	ND	µg/L	0.32	0.50
433	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	cis-1,3-Dichloropropene	ND	µg/L	0.29	0.50
434	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Dibromochloromethane	ND	µg/L	0.40	0.50
435	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Ethylbenzene	ND	µg/L	0.22	0.50
436	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Methylene chloride	ND	µg/L	1.0	1.0
437	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Tetrachloroethene	ND	µg/L	0.19	0.50
438	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Toluene	0.53	µg/L	0.22	0.50
439	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	trans-1,2-Dichloroethene	ND	µg/L	0.22	0.50
440	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	trans-1,3-Dichloropropene	ND	µg/L	0.35	0.50
441	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Trichloroethene	ND	µg/L	0.15	0.50
442	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 624	Vinyl chloride	ND	µg/L	0.34	0.50
443	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 8260B	2-Butanone	ND	µg/L	4.0	10
444	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 8260B	Acetone	ND	µg/L	5.0	10
445	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 8260B	m,p-Xylene	ND	µg/L	0.49	1.0
446	1087-201-WD	1/28/2010 2:25:00 PM	Groundwater	EPA 8260B	o-Xylene	ND	µg/L	0.27	0.50
447	1087-201-WD	1/27/2010 3:55:00 PM	Groundwater	EPA 8015B(M)	GRO	ND	mg/L	0.050	0.050
448	1087-201-WD	1/27/2010 3:55:00 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/L	0.050	0.20
449	1087-201-WD	1/27/2010 3:55:00 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/L	0.050	0.050
450	1087-201-WD	2/2/2010 11:50:29 AM	Groundwater	EPA 200.7	Boron	2.6	mg/L	0.068	0.10
451	1087-201-WD	2/5/2010 8:44:38 AM	Groundwater	EPA 200.8	Antimony	0.96	µg/L	0.85	2.5
452	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Arsenic	9.4	µg/L	0.044	1.0
453	1087-201-WD	2/2/2010 5:09:47 PM	Groundwater	EPA 200.8	Beryllium	ND	µg/L	3.9	50
454	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Cadmium	0.30	µg/L	0.025	0.50
455	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Chromium	ND	µg/L	0.079	0.50
456	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Copper	16	µg/L	0.32	1.0
457	1087-201-WD	2/3/2010 7:57:11 PM	Groundwater	EPA 200.8	Lead	ND	µg/L	0.10	1.0
458	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Nickel	15	µg/L	0.13	1.0
459	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Selenium	19	µg/L	0.31	0.50
460	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Silver	0.034	µg/L	0.027	0.50
461	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Thallium	ND	µg/L	0.080	0.50
462	1087-201-WD	2/2/2010 1:45:36 PM	Groundwater	EPA 200.8	Zinc	21	µg/L	1.4	10
463	1087-203-W	1/28/2010	Groundwater	EPA 180.1	Turbidity	38000	NTU	50	50
464	1087-203-W	1/30/2010 5:57:00 PM	Groundwater	EPA 300.0	Chloride	700	mg/L	13	50
465	1087-203-W	1/27/2010 4:20:00 PM	Groundwater	EPA 300.0	Nitrogen, Nitrate (As N)	3.6	mg/L	0.36	1.0
466	1087-203-W	1/27/2010 4:20:00 PM	Groundwater	EPA 300.0	Nitrogen, Nitrite	ND	mg/L	0.47	1.0
467	1087-203-W	1/30/2010 6:43:00 PM	Groundwater	EPA 300.0	Sulfate	3000	mg/L	44	200
468	1087-203-W	1/29/2010 4:06:00 PM	Groundwater	EPA 314.0	Perchlorate	ND	µg/L	5.2	10
469	1087-203-W	1/27/2010	Groundwater	SM4500-H+B	pH	7.2	pH Units	0.10	0.10
470	1087-203-W	1/27/2010	Groundwater	SM2540F	Settleable Matter	520	ml/L	0.11	0.11
471	1087-203-W	2/1/2010 8:22:51 PM	Groundwater	SM2540C	Total Dissolved Solids (Resid	6400	mg/L	22	67
472	1087-203-W	1/29/2010 10:00:00 AM	Groundwater	SM2540D	Suspended Solids (Residue,	50000	mg/L	200	200
473	1087-203-W	2/4/2010	Groundwater	EPA 1664 _HE	Oil & Grease	2.8	mg/L	0.65	4.6
474	1087-203-W	2/5/2010	Groundwater	EPA 1664_SGT/	Total Petroleum Hydrocarbon	15	mg/L	0.58	2.4
475	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	1,2,4-Trichlorobenzene	ND	µg/L	3.7	10
476	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	1,2-Dichlorobenzene	ND	µg/L	2.5	10
477	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	1,2-Diphenylhydrazine	ND	µg/L	4.4	10
478	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	1,3-Dichlorobenzene	ND	µg/L	2.6	10
479	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	1,4-Dichlorobenzene	ND	µg/L	2.6	10
480	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2,4,6-Trichlorophenol	ND	µg/L	3.4	10

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
481	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2,4-Dichlorophenol	ND	µg/L	3.0	10
482	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2,4-Dimethylphenol	ND	µg/L	2.7	10
483	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2,4-Dinitrophenol	ND	µg/L	5.6	50
484	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2,4-Dinitrotoluene	ND	µg/L	3.7	10
485	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2,6-Dinitrotoluene	ND	µg/L	3.8	10
486	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2-Chloronaphthalene	ND	µg/L	3.8	10
487	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2-Chlorophenol	ND	µg/L	2.3	10
488	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	2-Nitrophenol	ND	µg/L	3.1	10
489	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	3,3'-Dichlorobenzidine	ND	µg/L	3.6	20
490	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	4,6-Dinitro-2-methylphenol	ND	µg/L	4.2	50
491	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	4-Bromophenyl-phenylether	ND	µg/L	4.9	10
492	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	4-Chloro-3-methylphenol	ND	µg/L	3.2	50
493	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	4-Chlorophenyl-phenylether	ND	µg/L	4.8	10
494	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	4-Nitrophenol	ND	µg/L	3.0	50
495	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Acenaphthene	ND	µg/L	3.3	10
496	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Acenaphthylene	ND	µg/L	3.2	10
497	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Anthracene	ND	µg/L	4.1	10
498	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Benzidine (M)	ND	µg/L	5.9	50
499	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Benzo(a)anthracene	ND	µg/L	3.7	10
500	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Benzo(a)pyrene	ND	µg/L	3.6	10
501	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Benzo(b)fluoranthene	ND	µg/L	4.2	10
502	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Benzo(g,h,i)perylene	ND	µg/L	5.8	10
503	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Benzo(k)fluoranthene	ND	µg/L	4.2	10
504	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Bis(2-chloroethoxy)methane	ND	µg/L	3.0	10
505	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Bis(2-chloroethyl)ether	ND	µg/L	2.6	10
506	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Bis(2-chloroisopropyl)ether	ND	µg/L	2.5	10
507	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Bis(2-ethylhexyl)phthalate	ND	µg/L	5.0	10
508	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Butylbenzylphthalate	ND	µg/L	4.4	10
509	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Chrysene	ND	µg/L	3.2	10
510	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Dibenz(a,h)anthracene	ND	µg/L	4.1	10
511	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Diethylphthalate	ND	µg/L	4.0	10
512	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Dimethylphthalate	ND	µg/L	3.5	10
513	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Di-n-butylphthalate	ND	µg/L	4.8	10
514	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Di-n-octylphthalate	ND	µg/L	5.0	10
515	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Fluoranthene	ND	µg/L	4.1	10
516	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Fluorene	ND	µg/L	3.6	10
517	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Hexachlorobenzene	ND	µg/L	4.5	10
518	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Hexachlorobutadiene	ND	µg/L	4.0	20
519	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Hexachlorocyclopentadiene	ND	µg/L	4.8	10
520	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Hexachloroethane	ND	µg/L	2.7	10
521	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Indeno(1,2,3-cd)pyrene	ND	µg/L	4.9	10
522	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Isophorone	ND	µg/L	3.0	10
523	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Naphthalene	ND	µg/L	2.7	10
524	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Nitrobenzene	ND	µg/L	2.8	10
525	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	N-Nitrosodimethylamine	ND	µg/L	2.5	50
526	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	N-Nitrosodi-n-propylamine	ND	µg/L	1.2	10
527	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	N-Nitrosodiphenylamine	ND	µg/L	3.8	10
528	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Pentachlorophenol	ND	µg/L	4.5	50
529	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Phenanthrene	ND	µg/L	4.4	10
530	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Phenol	ND	µg/L	1.6	10
531	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 625	Pyrene	ND	µg/L	3.7	10
532	1087-203-W	2/2/2010 1:15:00 AM	Groundwater	EPA 8270C(M)	1,4-Dioxane	ND	µg/L	1.9	2.0
533	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	4,4'-DDD	ND	µg/L	0.0050	0.050
534	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	4,4'-DDE	ND	µg/L	0.0050	0.050
535	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	4,4'-DDT	ND	µg/L	0.0050	0.050
536	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Aldrin	ND	µg/L	0.0050	0.025
537	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	alpha-BHC	ND	µg/L	0.0050	0.025
538	1087-203-W	1/28/2010 6:55:00 PM	Groundwater	EPA 608	Aroclor 1016	ND	µg/L	0.10	0.50
539	1087-203-W	1/28/2010 6:55:00 PM	Groundwater	EPA 608	Aroclor 1221	ND	µg/L	0.10	1.0
540	1087-203-W	1/28/2010 6:55:00 PM	Groundwater	EPA 608	Aroclor 1232	ND	µg/L	0.10	0.50

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
541	1087-203-W	1/28/2010 6:55:00 PM	Groundwater	EPA 608	Aroclor 1242	ND	µg/L	0.10	0.50
542	1087-203-W	1/28/2010 6:55:00 PM	Groundwater	EPA 608	Aroclor 1248	ND	µg/L	0.10	0.50
543	1087-203-W	1/28/2010 6:55:00 PM	Groundwater	EPA 608	Aroclor 1254	ND	µg/L	0.10	0.50
544	1087-203-W	1/28/2010 6:55:00 PM	Groundwater	EPA 608	Aroclor 1260	ND	µg/L	0.10	0.50
545	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	beta-BHC	ND	µg/L	0.0050	0.025
546	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Chlordane	ND	µg/L	0.050	0.25
547	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	delta-BHC	ND	µg/L	0.0050	0.025
548	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Dieldrin	ND	µg/L	0.0050	0.050
549	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Endosulfan I	ND	µg/L	0.0050	0.025
550	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Endosulfan II	ND	µg/L	0.0050	0.050
551	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Endosulfan sulfate	ND	µg/L	0.0050	0.050
552	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Endrin	ND	µg/L	0.0050	0.050
553	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Endrin aldehyde	ND	µg/L	0.0050	0.050
554	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	gamma-BHC	ND	µg/L	0.0050	0.025
555	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Heptachlor	ND	µg/L	0.0050	0.025
556	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Heptachlor epoxide	ND	µg/L	0.0050	0.025
557	1087-203-W	1/28/2010 8:03:00 PM	Groundwater	EPA 608	Toxaphene	ND	µg/L	0.50	2.5
558	1087-203-W	1/29/2010 5:18:26 PM	Groundwater	EPA 8015B(M)	DRO	0.076	mg/L	0.050	0.050
559	1087-203-W	1/29/2010 5:18:26 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/L	0.050	0.050
560	1087-203-W	1/29/2010 5:18:26 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	0.070	mg/L	0.050	0.050
561	1087-203-W	1/29/2010 5:18:26 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/L	0.050	0.050
562	1087-203-W	1/27/2010	Groundwater	EPA 7196A	Chromium, Hexavalent	ND	mg/L	0.0086	0.010
563	1087-203-W	2/1/2010 11:27:36 AM	Groundwater	EPA 200.7	Boron	3.6	mg/L	0.34	0.50
564	1087-203-W	2/4/2010 8:05:49 PM	Groundwater	EPA 200.8	Antimony	ND	µg/L	0.85	2.5
565	1087-203-W	2/2/2010 2:27:30 PM	Groundwater	EPA 200.8	Arsenic	74	µg/L	0.044	1.0
566	1087-203-W	2/2/2010 7:36:23 PM	Groundwater	EPA 200.8	Beryllium	ND	µg/L	7.8	100
567	1087-203-W	2/2/2010 9:17:14 PM	Groundwater	EPA 200.8	Cadmium	46	µg/L	0.12	2.5
568	1087-203-W	2/2/2010 8:43:35 PM	Groundwater	EPA 200.8	Chromium	470	µg/L	1.6	10
569	1087-203-W	2/2/2010 8:43:35 PM	Groundwater	EPA 200.8	Copper	350	µg/L	6.4	20
570	1087-203-W	2/2/2010 8:43:35 PM	Groundwater	EPA 200.8	Lead	250	µg/L	2.1	20
571	1087-203-W	2/2/2010 8:18:26 PM	Groundwater	EPA 200.8	Nickel	1200	µg/L	6.4	50
572	1087-203-W	2/2/2010 2:27:30 PM	Groundwater	EPA 200.8	Selenium	8.7	µg/L	0.31	0.50
573	1087-203-W	2/2/2010 9:17:14 PM	Groundwater	EPA 200.8	Silver	2.0	µg/L	0.14	2.5
574	1087-203-W	2/2/2010 2:27:30 PM	Groundwater	EPA 200.8	Thallium	1.7	µg/L	0.080	0.50
575	1087-203-W	2/2/2010 9:17:14 PM	Groundwater	EPA 200.8	Zinc	1200	µg/L	7.1	50
576	1087-203-W	2/1/2010 11:32:12 AM	Groundwater	EPA 245.1	Mercury	1.1	µg/L	0.40	1.0
577	1087-203-W	1/30/2010	Groundwater	SM2340C	Hardness (As CaCO3)	11000	mg/L	820	2000
578	1087-203-W	2/2/2010	Groundwater	SM4500-S= D	Sulfide	5.7	mg/L	1.9	3.8
579	1087-203-W	2/1/2010	Groundwater	SM4500-CN E	Cyanide	0.015	mg/L	0.0030	0.010
580	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,1,1-Trichloroethane	ND	µg/L	0.27	0.50
581	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,1,2,2-Tetrachloroethane	ND	µg/L	0.35	0.50
582	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,1,2-Trichloroethane	ND	µg/L	0.43	0.50
583	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,1-Dichloroethane	ND	µg/L	0.17	0.50
584	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,1-Dichloroethene	ND	µg/L	0.19	0.50
585	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,2-Dichlorobenzene	ND	µg/L	0.27	0.50
586	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,2-Dichloroethane	ND	µg/L	0.16	0.50
587	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,2-Dichloropropane	ND	µg/L	0.20	0.50
588	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,3-Dichlorobenzene	ND	µg/L	0.28	0.50
589	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	1,4-Dichlorobenzene	ND	µg/L	0.24	0.50
590	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	2-Chloroethyl vinyl ether	ND	µg/L	0.14	0.50
591	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Acrolein	ND	µg/L	1.5	10
592	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Acrylonitrile	ND	µg/L	1.4	10
593	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Benzene	0.30	µg/L	0.17	0.50
594	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Bromodichloromethane	ND	µg/L	0.39	0.50
595	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Bromoform	ND	µg/L	0.30	0.50
596	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Bromomethane	ND	µg/L	0.32	0.50
597	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Carbon tetrachloride	ND	µg/L	0.38	0.50
598	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Chlorobenzene	ND	µg/L	0.28	0.50
599	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Chloroethane	ND	µg/L	0.35	0.50
600	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Chloroform	ND	µg/L	0.23	0.50

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
601	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Chloromethane	ND	µg/L	0.32	0.50
602	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	cis-1,3-Dichloropropene	ND	µg/L	0.29	0.50
603	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Dibromochloromethane	ND	µg/L	0.40	0.50
604	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Ethylbenzene	ND	µg/L	0.22	0.50
605	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Methylene chloride	ND	µg/L	1.0	1.0
606	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Tetrachloroethene	ND	µg/L	0.19	0.50
607	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Toluene	0.25	µg/L	0.22	0.50
608	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	trans-1,2-Dichloroethene	ND	µg/L	0.22	0.50
609	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	trans-1,3-Dichloropropene	ND	µg/L	0.35	0.50
610	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Trichloroethene	ND	µg/L	0.15	0.50
611	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 624	Vinyl chloride	ND	µg/L	0.34	0.50
612	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 8260B	2-Butanone	ND	µg/L	4.0	10
613	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 8260B	Acetone	ND	µg/L	5.0	10
614	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 8260B	m,p-Xylene	ND	µg/L	0.49	1.0
615	1087-203-W	1/28/2010 3:28:00 PM	Groundwater	EPA 8260B	o-Xylene	ND	µg/L	0.27	0.50
616	1087-203-W	1/27/2010 4:15:00 PM	Groundwater	EPA 8015B(M)	GRO	ND	mg/L	0.050	0.050
617	1087-203-W	1/27/2010 4:15:00 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/L	0.050	0.050
618	1087-203-W	1/27/2010 4:15:00 PM	Groundwater	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/L	0.050	0.20
619	1087-203-W	2/2/2010 12:00:03 PM	Groundwater	EPA 200.7	Boron	2.2	mg/L	0.068	0.10
620	1087-203-W	2/5/2010 8:50:03 AM	Groundwater	EPA 200.8	Antimony	ND	µg/L	0.85	2.5
621	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Arsenic	3.7	µg/L	0.044	1.0
622	1087-203-W	2/2/2010 5:35:33 PM	Groundwater	EPA 200.8	Beryllium	ND	µg/L	7.8	100
623	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Cadmium	0.26	µg/L	0.025	0.50
624	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Chromium	0.098	µg/L	0.079	0.50
625	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Copper	17	µg/L	0.32	1.0
626	1087-203-W	2/3/2010 8:01:24 PM	Groundwater	EPA 200.8	Lead	0.11	µg/L	0.10	1.0
627	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Nickel	21	µg/L	0.13	1.0
628	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Selenium	20	µg/L	0.31	0.50
629	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Silver	ND	µg/L	0.027	0.50
630	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Thallium	ND	µg/L	0.080	0.50
631	1087-203-W	2/2/2010 1:49:47 PM	Groundwater	EPA 200.8	Zinc	14	µg/L	1.4	10
632	1087-ERB-W	1/28/2010	Drinking Water	EPA 180.1	Turbidity	ND	NTU	0.10	0.10
633	1087-ERB-W	2/1/2010 11:27:00 AM	Drinking Water	EPA 300.0	Chloride	ND	mg/L	0.13	0.50
634	1087-ERB-W	1/27/2010 4:32:00 PM	Drinking Water	EPA 300.0	Nitrogen, Nitrate (As N)	ND	mg/L	0.036	0.10
635	1087-ERB-W	1/27/2010 4:32:00 PM	Drinking Water	EPA 300.0	Nitrogen, Nitrite	ND	mg/L	0.047	0.10
636	1087-ERB-W	1/27/2010 4:32:00 PM	Drinking Water	EPA 300.0	Sulfate	ND	mg/L	0.22	1.0
637	1087-ERB-W	1/29/2010 2:09:00 PM	Drinking Water	EPA 314.0	Perchlorate	ND	µg/L	1.0	2.0
638	1087-ERB-W	1/27/2010	Drinking Water	SM4500-H+B	pH	5.8	pH Units	0.10	0.10
639	1087-ERB-W	1/27/2010	Drinking Water	SM2540F	Settleable Matter	ND	ml/L	0.10	0.10
640	1087-ERB-W	2/1/2010 8:22:51 PM	Drinking Water	SM2540C	Total Dissolved Solids (Resid	8.0	mg/L	3.4	10
641	1087-ERB-W	1/29/2010 10:00:00 AM	Drinking Water	SM2540D	Suspended Solids (Residue,	ND	mg/L	10	10
642	1087-ERB-W	2/4/2010	Drinking Water	EPA 1664 _HE	Oil & Grease	ND	mg/L	0.67	4.8
643	1087-ERB-W	2/5/2010	Drinking Water	EPA 1664_SGT/	Total Petroleum Hydrocarbon	ND	mg/L	0.60	2.4
644	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	1,2,4-Trichlorobenzene	ND	µg/L	3.7	10
645	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	1,2-Dichlorobenzene	ND	µg/L	2.5	10
646	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	1,2-Diphenylhydrazine	ND	µg/L	4.4	10
647	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	1,3-Dichlorobenzene	ND	µg/L	2.6	10
648	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	1,4-Dichlorobenzene	ND	µg/L	2.6	10
649	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2,4,6-Trichlorophenol	ND	µg/L	3.4	10
650	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2,4-Dichlorophenol	ND	µg/L	3.0	10
651	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2,4-Dimethylphenol	ND	µg/L	2.7	10
652	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2,4-Dinitrophenol	ND	µg/L	5.6	50
653	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2,4-Dinitrotoluene	ND	µg/L	3.7	10
654	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2,6-Dinitrotoluene	ND	µg/L	3.8	10
655	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2-Chloronaphthalene	ND	µg/L	3.8	10
656	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2-Chlorophenol	ND	µg/L	2.3	10
657	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	2-Nitrophenol	ND	µg/L	3.1	10
658	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	3,3'-Dichlorobenzidine	ND	µg/L	3.6	20
659	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	4,6-Dinitro-2-methylphenol	ND	µg/L	4.2	50
660	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	4-Bromophenyl-phenylether	ND	µg/L	4.9	10

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
661	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	4-Chloro-3-methylphenol	ND	µg/L	3.2	50
662	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	4-Chlorophenyl-phenylether	ND	µg/L	4.8	10
663	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	4-Nitrophenol	ND	µg/L	3.0	50
664	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Acenaphthene	ND	µg/L	3.3	10
665	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Acenaphthylene	ND	µg/L	3.2	10
666	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Anthracene	ND	µg/L	4.1	10
667	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Benzidine (M)	ND	µg/L	5.9	50
668	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Benzo(a)anthracene	ND	µg/L	3.7	10
669	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Benzo(a)pyrene	ND	µg/L	3.6	10
670	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Benzo(b)fluoranthene	ND	µg/L	4.2	10
671	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Benzo(g,h,i)perylene	ND	µg/L	5.8	10
672	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Benzo(k)fluoranthene	ND	µg/L	4.2	10
673	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Bis(2-chloroethoxy)methane	ND	µg/L	3.0	10
674	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Bis(2-chloroethyl)ether	ND	µg/L	2.6	10
675	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Bis(2-chloroisopropyl)ether	ND	µg/L	2.5	10
676	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Bis(2-ethylhexyl)phthalate	ND	µg/L	5.0	10
677	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Butylbenzylphthalate	ND	µg/L	4.4	10
678	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Chrysene	ND	µg/L	3.2	10
679	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Dibenz(a,h)anthracene	ND	µg/L	4.1	10
680	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Diethylphthalate	ND	µg/L	4.0	10
681	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Dimethylphthalate	ND	µg/L	3.5	10
682	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Di-n-butylphthalate	ND	µg/L	4.8	10
683	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Di-n-octylphthalate	ND	µg/L	5.0	10
684	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Fluoranthene	ND	µg/L	4.1	10
685	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Fluorene	ND	µg/L	3.6	10
686	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Hexachlorobenzene	ND	µg/L	4.5	10
687	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Hexachlorobutadiene	ND	µg/L	4.0	20
688	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Hexachlorocyclopentadiene	ND	µg/L	4.8	10
689	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Hexachloroethane	ND	µg/L	2.7	10
690	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Indeno(1,2,3-cd)pyrene	ND	µg/L	4.9	10
691	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Isophorone	ND	µg/L	3.0	10
692	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Naphthalene	ND	µg/L	2.7	10
693	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Nitrobenzene	ND	µg/L	2.8	10
694	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	N-Nitrosodimethylamine	ND	µg/L	2.5	50
695	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	N-Nitrosodi-n-propylamine	ND	µg/L	1.2	10
696	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	N-Nitrosodiphenylamine	ND	µg/L	3.8	10
697	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Pentachlorophenol	ND	µg/L	4.5	50
698	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Phenanthrene	ND	µg/L	4.4	10
699	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Phenol	ND	µg/L	1.6	10
700	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 625	Pyrene	ND	µg/L	3.7	10
701	1087-ERB-W	2/2/2010 1:42:00 AM	Drinking Water	EPA 8270C(M)	1,4-Dioxane	ND	µg/L	1.9	2.0
702	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	4,4'-DDD	ND	µg/L	0.0050	0.050
703	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	4,4'-DDE	ND	µg/L	0.0050	0.050
704	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	4,4'-DDT	ND	µg/L	0.0050	0.050
705	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Aldrin	ND	µg/L	0.0050	0.025
706	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	alpha-BHC	ND	µg/L	0.0050	0.025
707	1087-ERB-W	1/28/2010 7:25:00 PM	Drinking Water	EPA 608	Aroclor 1016	ND	µg/L	0.10	0.50
708	1087-ERB-W	1/28/2010 7:25:00 PM	Drinking Water	EPA 608	Aroclor 1221	ND	µg/L	0.10	1.0
709	1087-ERB-W	1/28/2010 7:25:00 PM	Drinking Water	EPA 608	Aroclor 1232	ND	µg/L	0.10	0.50
710	1087-ERB-W	1/28/2010 7:25:00 PM	Drinking Water	EPA 608	Aroclor 1242	ND	µg/L	0.10	0.50
711	1087-ERB-W	1/28/2010 7:25:00 PM	Drinking Water	EPA 608	Aroclor 1248	ND	µg/L	0.10	0.50
712	1087-ERB-W	1/28/2010 7:25:00 PM	Drinking Water	EPA 608	Aroclor 1254	ND	µg/L	0.10	0.50
713	1087-ERB-W	1/28/2010 7:25:00 PM	Drinking Water	EPA 608	Aroclor 1260	ND	µg/L	0.10	0.50
714	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	beta-BHC	ND	µg/L	0.0050	0.025
715	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Chlordane	ND	µg/L	0.050	0.25
716	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	delta-BHC	ND	µg/L	0.0050	0.025
717	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Dieldrin	ND	µg/L	0.0050	0.050
718	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Endosulfan I	ND	µg/L	0.0050	0.025
719	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Endosulfan II	ND	µg/L	0.0050	0.050
720	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Endosulfan sulfate	ND	µg/L	0.0050	0.050

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
721	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Endrin	ND	µg/L	0.0050	0.050
722	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Endrin aldehyde	ND	µg/L	0.0050	0.050
723	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	gamma-BHC	ND	µg/L	0.0050	0.025
724	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Heptachlor	ND	µg/L	0.0050	0.025
725	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Heptachlor epoxide	ND	µg/L	0.0050	0.025
726	1087-ERB-W	1/28/2010 8:17:00 PM	Drinking Water	EPA 608	Toxaphene	ND	µg/L	0.50	2.5
727	1087-ERB-W	1/29/2010 4:34:00 PM	Drinking Water	EPA 8015B(M)	DRO	ND	mg/L	0.050	0.050
728	1087-ERB-W	1/29/2010 4:34:00 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/L	0.050	0.050
729	1087-ERB-W	1/29/2010 4:34:00 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/L	0.050	0.050
730	1087-ERB-W	1/29/2010 4:34:00 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/L	0.050	0.050
731	1087-ERB-W	1/27/2010	Drinking Water	EPA 7196A	Chromium, Hexavalent	ND	mg/L	0.0086	0.010
732	1087-ERB-W	1/29/2010 6:47:48 PM	Drinking Water	EPA 200.7	Boron	ND	mg/L	0.068	0.10
733	1087-ERB-W	2/1/2010 10:59:09 AM	Drinking Water	EPA 200.7	Boron	ND	mg/L	0.068	0.10
734	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Antimony	ND	µg/L	0.17	0.50
735	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Arsenic	ND	µg/L	0.044	1.0
736	1087-ERB-W	2/2/2010 7:11:10 PM	Drinking Water	EPA 200.8	Beryllium	ND	µg/L	0.039	0.50
737	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Cadmium	0.035	µg/L	0.025	0.50
738	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Chromium	ND	µg/L	0.079	0.50
739	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Copper	ND	µg/L	0.32	1.0
740	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Lead	0.15	µg/L	0.10	1.0
741	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Nickel	ND	µg/L	0.13	1.0
742	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Selenium	ND	µg/L	0.31	0.50
743	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Silver	ND	µg/L	0.027	0.50
744	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Thallium	ND	µg/L	0.080	0.50
745	1087-ERB-W	2/2/2010 2:36:14 PM	Drinking Water	EPA 200.8	Zinc	7.6	µg/L	1.4	10
746	1087-ERB-W	2/1/2010 11:55:40 AM	Drinking Water	EPA 245.1	Mercury	ND	µg/L	0.081	0.20
747	1087-ERB-W	1/30/2010	Drinking Water	SM2340C	Hardness (As CaCO3)	ND	mg/L	0.82	2.0
748	1087-ERB-W	2/2/2010	Drinking Water	SM4500-S= D	Sulfide	ND	mg/L	0.0050	0.010
749	1087-ERB-W	2/1/2010	Drinking Water	SM4500-CN E	Cyanide	ND	mg/L	0.0030	0.010
750	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,1,1-Trichloroethane	ND	µg/L	0.27	0.50
751	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,1,2,2-Tetrachloroethane	ND	µg/L	0.35	0.50
752	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,1,2-Trichloroethane	ND	µg/L	0.43	0.50
753	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,1-Dichloroethane	ND	µg/L	0.17	0.50
754	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,1-Dichloroethene	ND	µg/L	0.19	0.50
755	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,2-Dichlorobenzene	ND	µg/L	0.27	0.50
756	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,2-Dichloroethane	ND	µg/L	0.16	0.50
757	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,2-Dichloropropane	ND	µg/L	0.20	0.50
758	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,3-Dichlorobenzene	ND	µg/L	0.28	0.50
759	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	1,4-Dichlorobenzene	ND	µg/L	0.24	0.50
760	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	2-Chloroethyl vinyl ether	ND	µg/L	0.14	0.50
761	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Acrolein	ND	µg/L	1.5	10
762	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Acrylonitrile	ND	µg/L	1.4	10
763	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Benzene	ND	µg/L	0.17	0.50
764	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Bromodichloromethane	ND	µg/L	0.39	0.50
765	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Bromoform	ND	µg/L	0.30	0.50
766	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Bromomethane	ND	µg/L	0.32	0.50
767	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Carbon tetrachloride	ND	µg/L	0.38	0.50
768	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Chlorobenzene	ND	µg/L	0.28	0.50
769	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Chloroethane	ND	µg/L	0.35	0.50
770	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Chloroform	ND	µg/L	0.23	0.50
771	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Chloromethane	ND	µg/L	0.32	0.50
772	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	cis-1,3-Dichloropropene	ND	µg/L	0.29	0.50
773	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Dibromochloromethane	ND	µg/L	0.40	0.50
774	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Ethylbenzene	ND	µg/L	0.22	0.50
775	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Methylene chloride	ND	µg/L	1.0	1.0
776	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Tetrachloroethene	ND	µg/L	0.19	0.50
777	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Toluene	0.81	µg/L	0.22	0.50
778	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	trans-1,2-Dichloroethene	ND	µg/L	0.22	0.50
779	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	trans-1,3-Dichloropropene	ND	µg/L	0.35	0.50
780	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Trichloroethene	ND	µg/L	0.15	0.50

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
781	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 624	Vinyl chloride	ND	µg/L	0.34	0.50
782	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 8260B	2-Butanone	ND	µg/L	4.0	10
783	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 8260B	Acetone	ND	µg/L	5.0	10
784	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 8260B	m,p-Xylene	ND	µg/L	0.49	1.0
785	1087-ERB-W	1/28/2010 2:04:00 PM	Drinking Water	EPA 8260B	o-Xylene	ND	µg/L	0.27	0.50
786	1087-ERB-W	1/27/2010 2:10:00 PM	Drinking Water	EPA 8015B(M)	GRO	ND	mg/L	0.050	0.050
787	1087-ERB-W	1/27/2010 2:10:00 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/L	0.050	0.20
788	1087-ERB-W	1/27/2010 2:10:00 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/L	0.050	0.050
789	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,1,1-Trichloroethane	ND	µg/L	0.27	0.50
790	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,1,2,2-Tetrachloroethane	ND	µg/L	0.35	0.50
791	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,1,2-Trichloroethane	ND	µg/L	0.43	0.50
792	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,1-Dichloroethane	ND	µg/L	0.17	0.50
793	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,1-Dichloroethene	ND	µg/L	0.19	0.50
794	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,2-Dichlorobenzene	ND	µg/L	0.27	0.50
795	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,2-Dichloroethane	ND	µg/L	0.16	0.50
796	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,2-Dichloropropane	ND	µg/L	0.20	0.50
797	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,3-Dichlorobenzene	ND	µg/L	0.28	0.50
798	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	1,4-Dichlorobenzene	ND	µg/L	0.24	0.50
799	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	2-Chloroethyl vinyl ether	ND	µg/L	0.14	0.50
800	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Acrolein	ND	µg/L	1.5	10
801	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Acrylonitrile	ND	µg/L	1.4	10
802	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Benzene	ND	µg/L	0.17	0.50
803	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Bromodichloromethane	ND	µg/L	0.39	0.50
804	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Bromoform	ND	µg/L	0.30	0.50
805	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Bromomethane	ND	µg/L	0.32	0.50
806	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Carbon tetrachloride	ND	µg/L	0.38	0.50
807	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Chlorobenzene	ND	µg/L	0.28	0.50
808	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Chloroethane	ND	µg/L	0.35	0.50
809	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Chloroform	ND	µg/L	0.23	0.50
810	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Chloromethane	ND	µg/L	0.32	0.50
811	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	cis-1,3-Dichloropropene	ND	µg/L	0.29	0.50
812	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Dibromochloromethane	ND	µg/L	0.40	0.50
813	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Ethylbenzene	ND	µg/L	0.22	0.50
814	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Methylene chloride	ND	µg/L	1.0	1.0
815	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Tetrachloroethene	ND	µg/L	0.19	0.50
816	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Toluene	ND	µg/L	0.22	0.50
817	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	trans-1,2-Dichloroethene	ND	µg/L	0.22	0.50
818	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	trans-1,3-Dichloropropene	ND	µg/L	0.35	0.50
819	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Trichloroethene	ND	µg/L	0.15	0.50
820	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 624	Vinyl chloride	ND	µg/L	0.34	0.50
821	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 8260B	2-Butanone	ND	µg/L	4.0	10
822	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 8260B	Acetone	ND	µg/L	5.0	10
823	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 8260B	m,p-Xylene	ND	µg/L	0.49	1.0
824	Trip Blank	1/28/2010 1:43:00 PM	Drinking Water	EPA 8260B	o-Xylene	ND	µg/L	0.27	0.50
825	1087-101-0.5	1/29/2010 11:42:00 AM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
826	1087-101-1	1/29/2010 11:42:48 AM	Soil	EPA 6010B	Lead	6.1	mg/Kg		5.0
827	1087-101-2	1/29/2010 11:43:35 AM	Soil	EPA 6010B	Lead	5.1	mg/Kg		5.0
828	1087-102-0.5	1/29/2010 11:44:22 AM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
829	1087-102-1	1/29/2010 11:45:11 AM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
830	1087-102-2	1/29/2010 11:45:59 AM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
831	1087-103-0.5	1/29/2010 11:46:47 AM	Soil	EPA 6010B	Lead	16	mg/Kg		5.0
832	1087-103-1	1/29/2010 11:47:36 AM	Soil	EPA 6010B	Lead	5.8	mg/Kg		5.0
833	1087-103-2	1/29/2010 11:50:33 AM	Soil	EPA 6010B	Lead	6.6	mg/Kg		5.0
834	1087-103-2D	1/29/2010 11:51:24 AM	Soil	EPA 6010B	Lead	5.6	mg/Kg		5.0
835	1087-104-0.5	1/29/2010 11:55:07 AM	Soil	EPA 6010B	Lead	11	mg/Kg		5.0
836	1087-104-1	1/29/2010 11:55:55 AM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
837	1087-104-2	1/29/2010 11:56:43 AM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
838	1087-105-0.5	1/29/2010 11:57:31 AM	Soil	EPA 6010B	Lead	6.4	mg/Kg		5.0
839	1087-105-1	1/29/2010 11:58:19 AM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
840	1087-105-2	1/29/2010 12:01:17 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
841	1087-106-0.5	1/29/2010 12:02:07 PM	Soil	EPA 6010B	Lead	6.6	mg/Kg		5.0
842	1087-106-1	1/29/2010 12:02:55 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
843	1087-106-2	1/29/2010 12:03:44 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
844	1087-107-0.5	1/29/2010 12:04:32 PM	Soil	EPA 6010B	Lead	20	mg/Kg		5.0
845	1087-107-0.5D	1/29/2010 12:11:57 PM	Soil	EPA 6010B	Lead	47	mg/Kg		5.0
846	1087-107-1	1/29/2010 12:12:47 PM	Soil	EPA 6010B	Lead	6.4	mg/Kg		5.0
847	1087-107-2	1/29/2010 12:13:35 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
848	1087-108-0.5	1/29/2010 12:14:23 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
849	1087-108-1	1/29/2010 12:15:10 PM	Soil	EPA 6010B	Lead	5.4	mg/Kg		5.0
850	1087-108-2	1/29/2010 12:15:58 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
851	1087-109-0.5	1/29/2010 12:16:46 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
852	1087-109-1	1/29/2010 12:17:34 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
853	1087-109-1D	1/29/2010 12:18:22 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
854	1087-109-2	1/29/2010 12:19:11 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
855	1087-110-0.5	1/29/2010 12:24:59 PM	Soil	EPA 6010B	Lead	13	mg/Kg		5.0
856	1087-110-1	1/29/2010 12:25:47 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
857	1087-110-2	1/29/2010 12:26:35 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
858	1087-111-0.5	1/29/2010 12:27:23 PM	Soil	EPA 6010B	Lead	23	mg/Kg		5.0
859	1087-111-2	1/29/2010 12:48:22 PM	Soil	EPA 6010B	Lead	5.1	mg/Kg		5.0
860	1087-111-2D	1/29/2010 12:49:17 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
861	1087-112-0.5	1/29/2010 12:52:38 PM	Soil	EPA 6010B	Lead	5.8	mg/Kg		5.0
862	1087-112-1	1/29/2010 12:53:26 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
863	1087-112-2	1/29/2010 12:54:14 PM	Soil	EPA 6010B	Lead	5.8	mg/Kg		5.0
864	1087-111-1	1/29/2010 3:50:16 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
865	1087-113-0.5	1/29/2010 12:59:31 PM	Soil	EPA 6010B	Lead	5.9	mg/Kg		5.0
866	1087-113-1	1/29/2010 1:00:19 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
867	1087-113-1D	1/29/2010 1:03:42 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
868	1087-113-2	1/29/2010 1:04:32 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
869	1087-114-0.5	1/29/2010 1:05:20 PM	Soil	EPA 6010B	Lead	12	mg/Kg		5.0
870	1087-114-1	1/29/2010 1:06:09 PM	Soil	EPA 6010B	Lead	5.2	mg/Kg		5.0
871	1087-114-2	1/29/2010 1:06:57 PM	Soil	EPA 6010B	Lead	ND	mg/Kg		5.0
872	1087-ERB-5	2/1/2010 9:58:52 AM	Liquid	EPA 6010B	Lead	ND	mg/L		0.25
873	1087-101-1	2/1/2010	Soil	EPA 9045C	pH	7.8	pH Units		0.10
874	1087-105-2	2/1/2010	Soil	EPA 9045C	pH	7.7	pH Units		0.10
875	1087-108-0.5	2/1/2010	Soil	EPA 9045C	pH	7.9	pH Units		0.10
876	1087-111-1	2/1/2010	Soil	EPA 9045C	pH	8.0	pH Units		0.10
877	1087-114-0.5	2/1/2010	Soil	EPA 9045C	pH	7.8	pH Units		0.10
878	1087-201-0.5	2/1/2010 10:23:42 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	1.9	mg/Kg	1.0	1.0
879	1087-201-0.5	2/1/2010 10:23:42 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	10	mg/Kg	1.0	1.0
880	1087-201-0.5	1/28/2010 2:50:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
881	1087-201-0.5	2/1/2010 10:23:42 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	14	mg/Kg	1.0	1.0
882	1087-201-10	2/1/2010 11:08:51 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	8.0	mg/Kg	1.0	1.0
883	1087-201-10	2/1/2010 11:08:51 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	20	mg/Kg	1.0	1.0
884	1087-201-10	1/28/2010 3:04:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
885	1087-201-10	2/1/2010 11:08:51 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	25	mg/Kg	1.0	1.0
886	1087-201-20	2/1/2010 9:57:10 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	1.8	mg/Kg	1.0	1.0
887	1087-201-20	2/1/2010 9:57:10 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	4.7	mg/Kg	1.0	1.0
888	1087-201-20	1/28/2010 4:46:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
889	1087-201-20	2/1/2010 9:57:10 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	4.8	mg/Kg	1.0	1.0
890	1087-203-0.5	2/2/2010 12:13:11 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	62	mg/Kg	10	10
891	1087-203-0.5	2/2/2010 12:13:11 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	400	mg/Kg	10	10
892	1087-203-0.5	1/28/2010 3:19:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
893	1087-203-0.5	2/2/2010 12:13:11 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	640	mg/Kg	10	10
894	1087-203-5	2/1/2010 10:32:38 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	1.4	mg/Kg	1.0	1.0
895	1087-203-5	2/1/2010 10:32:38 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	9.3	mg/Kg	1.0	1.0
896	1087-203-5	1/28/2010 3:33:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
897	1087-203-5	2/1/2010 10:32:38 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	14	mg/Kg	1.0	1.0
898	1087-203-10	2/1/2010 10:06:02 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
899	1087-203-10	2/1/2010 10:06:02 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	2.7	mg/Kg	1.0	1.0
900	1087-203-10	1/28/2010 4:02:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
901	1087-203-10	2/1/2010 10:06:02 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	4.4	mg/Kg	1.0	1.0
902	1087-203-10D	2/1/2010 10:14:50 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	1.1	mg/Kg	1.0	1.0
903	1087-203-10D	2/1/2010 10:14:50 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	5.5	mg/Kg	1.0	1.0
904	1087-203-10D	1/28/2010 4:17:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
905	1087-203-10D	2/1/2010 10:14:50 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	7.6	mg/Kg	1.0	1.0
906	1087-203-15	2/1/2010 10:41:37 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	3.2	mg/Kg	1.0	1.0
907	1087-203-15	2/1/2010 10:41:37 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	11	mg/Kg	1.0	1.0
908	1087-203-15	1/28/2010 4:31:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
909	1087-203-15	2/1/2010 10:41:37 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	17	mg/Kg	1.0	1.0
910	1087-ERB-SP	1/29/2010 4:51:43 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/L	0.050	0.050
911	1087-ERB-SP	1/29/2010 4:51:43 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/L	0.050	0.050
912	1087-ERB-SP	1/29/2010 4:51:43 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C8-C12	ND	mg/L	0.050	0.050
913	1087-ERB-SP	1/29/2010 4:51:43 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/L	0.050	0.050
914	1087-202-0.5	2/2/2010 4:16:19 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	220	mg/Kg	20	20
915	1087-202-0.5	2/2/2010 4:16:19 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	540	mg/Kg	20	20
916	1087-202-0.5	1/29/2010 3:34:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
917	1087-202-0.5	2/2/2010 4:16:19 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	660	mg/Kg	20	20
918	1087-202-0.5D	2/1/2010 10:50:39 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
919	1087-202-0.5D	2/1/2010 10:50:39 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	7.1	mg/Kg	1.0	1.0
920	1087-202-0.5D	1/29/2010 3:49:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
921	1087-202-0.5D	2/1/2010 10:50:39 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	17	mg/Kg	1.0	1.0
922	1087-202-5	2/1/2010 7:11:09 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
923	1087-202-5	2/1/2010 7:11:09 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	4.6	mg/Kg	1.0	1.0
924	1087-202-5	1/29/2010 6:29:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
925	1087-202-5	2/1/2010 7:11:09 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	9.2	mg/Kg	1.0	1.0
926	1087-202-10	2/1/2010 7:20:23 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	2.2	mg/Kg	1.0	1.0
927	1087-202-10	2/1/2010 7:20:23 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	6.6	mg/Kg	1.0	1.0
928	1087-202-10	1/29/2010 6:58:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
929	1087-202-10	2/1/2010 7:20:23 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	9.9	mg/Kg	1.0	1.0
930	1087-202-15	2/1/2010 6:52:39 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
931	1087-202-15	2/1/2010 6:52:39 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	2.7	mg/Kg	1.0	1.0
932	1087-202-15	1/30/2010 2:15:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
933	1087-202-15	2/1/2010 6:52:39 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	3.8	mg/Kg	1.0	1.0
934	1087-204-0.5	2/1/2010 7:38:46 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	5.1	mg/Kg	1.0	1.0
935	1087-204-0.5	2/1/2010 7:38:46 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	32	mg/Kg	1.0	1.0
936	1087-204-0.5	1/29/2010 7:12:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
937	1087-204-0.5	2/1/2010 7:38:46 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	48	mg/Kg	1.0	1.0
938	1087-204-5	2/1/2010 7:47:56 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
939	1087-204-5	2/1/2010 7:47:56 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	11	mg/Kg	1.0	1.0
940	1087-204-5	1/29/2010 7:27:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
941	1087-204-5	2/1/2010 7:47:56 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	30	mg/Kg	1.0	1.0
942	1087-204-10	2/1/2010 6:43:25 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
943	1087-204-10	2/1/2010 6:43:25 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/Kg	1.0	1.0
944	1087-204-10	1/29/2010 7:41:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
945	1087-204-10	2/1/2010 6:43:25 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	1.7	mg/Kg	1.0	1.0
946	1087-204-15	2/1/2010 7:01:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
947	1087-204-15	2/1/2010 7:01:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	1.8	mg/Kg	1.0	1.0
948	1087-204-15	1/29/2010 7:56:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
949	1087-204-15	2/1/2010 7:01:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	3.8	mg/Kg	1.0	1.0
950	1087-205-0.5	2/2/2010 1:42:47 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	38	mg/Kg	10	10
951	1087-205-0.5	2/2/2010 1:42:47 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	290	mg/Kg	10	10
952	1087-205-0.5	1/29/2010 8:11:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
953	1087-205-0.5	2/2/2010 1:42:47 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	440	mg/Kg	10	10
954	1087-205-5	2/2/2010 4:06:52 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	2.9	mg/Kg	1.0	1.0
955	1087-205-5	2/2/2010 4:06:52 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	22	mg/Kg	1.0	1.0
956	1087-205-5	1/29/2010 8:25:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
957	1087-205-5	2/2/2010 4:06:52 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	36	mg/Kg	1.0	1.0
958	1087-205-5D	2/1/2010 8:24:17 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	10	10
959	1087-205-5D	2/1/2010 8:24:17 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	58	mg/Kg	10	10
960	1087-205-5D	1/29/2010 8:40:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
961	1087-205-5D	2/1/2010 8:24:17 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	190	mg/Kg	10	10
962	1087-205-10	2/5/2010 10:30:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
963	1087-205-10	2/5/2010 10:30:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/Kg	1.0	1.0
964	1087-205-10	1/29/2010 11:49:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
965	1087-205-10	2/5/2010 10:30:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/Kg	1.0	1.0
966	1087-205-15	2/5/2010 10:57:57 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
967	1087-205-15	2/5/2010 10:57:57 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/Kg	1.0	1.0
968	1087-205-15	1/29/2010 8:54:00 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
969	1087-205-15	2/5/2010 10:57:57 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/Kg	1.0	1.0
970	1087-206-0.5	2/6/2010 12:01:37 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	10	10
971	1087-206-0.5	2/6/2010 12:01:37 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	45	mg/Kg	10	10
972	1087-206-0.5	1/30/2010 12:18:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
973	1087-206-0.5	2/6/2010 12:01:37 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	89	mg/Kg	10	10
974	1087-206-0.5D	2/5/2010 11:52:25 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	10	10
975	1087-206-0.5D	2/5/2010 11:52:25 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	100	mg/Kg	10	10
976	1087-206-0.5D	1/30/2010 12:33:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
977	1087-206-0.5D	2/5/2010 11:52:25 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	130	mg/Kg	10	10
978	1087-206-5	2/5/2010 11:25:10 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
979	1087-206-5	2/5/2010 11:25:10 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	1.2	mg/Kg	1.0	1.0
980	1087-206-5	1/30/2010 12:47:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
981	1087-206-5	2/5/2010 11:25:10 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	2.1	mg/Kg	1.0	1.0
982	1087-206-10	2/5/2010 10:48:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
983	1087-206-10	2/5/2010 10:48:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/Kg	1.0	1.0
984	1087-206-10	1/30/2010 1:02:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
985	1087-206-10	2/5/2010 10:48:54 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/Kg	1.0	1.0
986	1087-206-15	2/5/2010 11:16:09 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
987	1087-206-15	2/5/2010 11:16:09 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/Kg	1.0	1.0
988	1087-206-15	1/30/2010 1:17:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
989	1087-206-15	2/5/2010 11:16:09 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/Kg	1.0	1.0
990	1087-207-0.5	2/5/2010 11:43:16 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	10	10
991	1087-207-0.5	2/5/2010 11:43:16 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	54	mg/Kg	10	10
992	1087-207-0.5	1/30/2010 1:31:00 AM	Soil	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
993	1087-207-0.5	2/5/2010 11:43:16 PM	Soil	EPA 8015B(M)	T/R Hydrocarbons:>C32	78	mg/Kg	10	10
994	1087-207-5	2/5/2010 11:34:11 PM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
995	1087-207-5	2/5/2010 11:34:11 PM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	7.2	mg/Kg	1.0	1.0
996	1087-207-5	2/1/2010 11:51:00 AM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
997	1087-207-5	2/5/2010 11:34:11 PM	Solid	EPA 8015B(M)	T/R Hydrocarbons:>C32	11	mg/Kg	1.0	1.0
998	1087-207-10	2/5/2010 11:07:02 PM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/Kg	1.0	1.0
999	1087-207-10	2/5/2010 11:07:02 PM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/Kg	1.0	1.0
1000	1087-207-10	1/30/2010 1:46:00 AM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
1001	1087-207-10	2/5/2010 11:07:02 PM	Solid	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/Kg	1.0	1.0
1002	1087-207-15	2/6/2010 12:10:51 AM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	2.4	mg/Kg	1.0	1.0
1003	1087-207-15	2/6/2010 12:10:51 AM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	11	mg/Kg	1.0	1.0
1004	1087-207-15	1/30/2010 2:00:00 AM	Solid	EPA 8015B(M)	T/R Hydrocarbons: C4-C12	ND	mg/Kg	0.19	1.0
1005	1087-207-15	2/6/2010 12:10:51 AM	Solid	EPA 8015B(M)	T/R Hydrocarbons:>C32	14	mg/Kg	1.0	1.0
1006	1087-ERB-SS2	1/29/2010 4:42:50 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C13-C22	ND	mg/L	0.050	0.050
1007	1087-ERB-SS2	1/29/2010 4:42:50 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C23-C32	ND	mg/L	0.050	0.050
1008	1087-ERB-SS2	1/29/2010 4:42:50 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons: C8-C12	ND	mg/L	0.050	0.050
1009	1087-ERB-SS2	1/29/2010 4:42:50 PM	Drinking Water	EPA 8015B(M)	T/R Hydrocarbons:>C32	ND	mg/L	0.050	0.050
1010	1087-103-0.5	2/17/2010 3:34:14 PM	Soil	EPA 1311/ 7420	Lead	ND	mg/L		0.25
1011	1087-103-0.5	2/17/2010 12:32:20 PM	Soil	WET/ EPA 7420	Lead	2.0	mg/L		0.25
1012	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Antimony	ND	mg/Kg		2.0
1013	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Arsenic	2.0	mg/Kg		1.0
1014	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Barium	55	mg/Kg		1.0
1015	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Beryllium	ND	mg/Kg		1.0
1016	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Cadmium	ND	mg/Kg		1.0
1017	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Chromium	11	mg/Kg		1.0
1018	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Cobalt	2.3	mg/Kg		1.0
1019	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Copper	13	mg/Kg		2.0
1020	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Molybdenum	ND	mg/Kg		1.0

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
1021	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Nickel	9.1	mg/Kg		1.0
1022	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Selenium	ND	mg/Kg		1.0
1023	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Silver	ND	mg/Kg		1.0
1024	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Thallium	ND	mg/Kg		1.0
1025	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Vanadium	17	mg/Kg		1.0
1026	1087-103-0.5	2/16/2010 12:54:48 PM	Soil	EPA 6010B	Zinc	36	mg/Kg		1.0
1027	1087-103-0.5	2/15/2010 3:43:42 PM	Soil	EPA 7471A	Mercury	ND	mg/Kg		0.10
1028	1087-104-0.5	2/17/2010 3:34:50 PM	Soil	EPA 1311/ 7420	Lead	ND	mg/L		0.25
1029	1087-104-0.5	2/17/2010 12:33:30 PM	Soil	WET/ EPA 7420	Lead	1.1	mg/L		0.25
1030	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Antimony	ND	mg/Kg		2.0
1031	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Arsenic	2.2	mg/Kg		1.0
1032	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Barium	82	mg/Kg		1.0
1033	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Beryllium	ND	mg/Kg		1.0
1034	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Cadmium	ND	mg/Kg		1.0
1035	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Chromium	12	mg/Kg		1.0
1036	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Cobalt	3.1	mg/Kg		1.0
1037	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Copper	11	mg/Kg		2.0
1038	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Molybdenum	ND	mg/Kg		1.0
1039	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Nickel	16	mg/Kg		1.0
1040	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Selenium	ND	mg/Kg		1.0
1041	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Silver	ND	mg/Kg		1.0
1042	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Thallium	ND	mg/Kg		1.0
1043	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Vanadium	20	mg/Kg		1.0
1044	1087-104-0.5	2/16/2010 1:08:46 PM	Soil	EPA 6010B	Zinc	25	mg/Kg		1.0
1045	1087-104-0.5	2/15/2010 3:45:50 PM	Soil	EPA 7471A	Mercury	ND	mg/Kg		0.10
1046	1087-107-0.5	2/17/2010 3:35:14 PM	Soil	EPA 1311/ 7420	Lead	ND	mg/L		0.25
1047	1087-107-0.5	2/17/2010 12:33:49 PM	Soil	WET/ EPA 7420	Lead	0.72	mg/L		0.25
1048	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Antimony	ND	mg/Kg		2.0
1049	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Arsenic	ND	mg/Kg		1.0
1050	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Barium	43	mg/Kg		1.0
1051	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Beryllium	ND	mg/Kg		1.0
1052	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Cadmium	ND	mg/Kg		1.0
1053	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Chromium	7.6	mg/Kg		1.0
1054	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Cobalt	1.9	mg/Kg		1.0
1055	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Copper	4.8	mg/Kg		2.0
1056	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Molybdenum	ND	mg/Kg		1.0
1057	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Nickel	9.8	mg/Kg		1.0
1058	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Selenium	ND	mg/Kg		1.0
1059	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Silver	ND	mg/Kg		1.0
1060	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Thallium	ND	mg/Kg		1.0
1061	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Vanadium	10	mg/Kg		1.0
1062	1087-107-0.5	2/16/2010 1:11:38 PM	Soil	EPA 6010B	Zinc	14	mg/Kg		1.0
1063	1087-107-0.5	2/15/2010 3:47:59 PM	Soil	EPA 7471A	Mercury	ND	mg/Kg		0.10
1064	1087-107-0.5D	2/17/2010 3:35:37 PM	Soil	EPA 1311/ 7420	Lead	ND	mg/L		0.25
1065	1087-107-0.5D	2/17/2010 12:34:10 PM	Soil	WET/ EPA 7420	Lead	0.89	mg/L		0.25
1066	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Antimony	ND	mg/Kg		2.0
1067	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Arsenic	2.2	mg/Kg		1.0
1068	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Barium	86	mg/Kg		1.0
1069	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Beryllium	ND	mg/Kg		1.0
1070	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Cadmium	ND	mg/Kg		1.0
1071	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Chromium	14	mg/Kg		1.0
1072	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Cobalt	3.5	mg/Kg		1.0
1073	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Copper	9.6	mg/Kg		2.0
1074	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Molybdenum	ND	mg/Kg		1.0
1075	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Nickel	18	mg/Kg		1.0
1076	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Selenium	ND	mg/Kg		1.0
1077	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Silver	ND	mg/Kg		1.0
1078	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Thallium	ND	mg/Kg		1.0
1079	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Vanadium	19	mg/Kg		1.0
1080	1087-107-0.5D	2/16/2010 1:16:03 PM	Soil	EPA 6010B	Zinc	25	mg/Kg		1.0

ID	Sample ID	Analysis Date	Matrix	Analysis Type	Analyte	Value	Result Units	MDL	PQL
1081	1087-107-0.5D	2/15/2010 3:54:10 PM	Soil	EPA 7471A	Mercury	ND	mg/Kg		0.10
1082	1087-110-0.5	2/17/2010 3:36:00 PM	Soil	EPA 1311/ 7420	Lead	ND	mg/L		0.25
1083	1087-110-0.5	2/17/2010 12:34:31 PM	Soil	WET/ EPA 7420	Lead	0.85	mg/L		0.25
1084	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Antimony	ND	mg/Kg		2.0
1085	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Arsenic	1.5	mg/Kg		1.0
1086	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Barium	51	mg/Kg		1.0
1087	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Beryllium	ND	mg/Kg		1.0
1088	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Cadmium	ND	mg/Kg		1.0
1089	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Chromium	11	mg/Kg		1.0
1090	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Cobalt	3.6	mg/Kg		1.0
1091	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Copper	21	mg/Kg		2.0
1092	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Molybdenum	ND	mg/Kg		1.0
1093	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Nickel	12	mg/Kg		1.0
1094	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Selenium	ND	mg/Kg		1.0
1095	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Silver	ND	mg/Kg		1.0
1096	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Thallium	ND	mg/Kg		1.0
1097	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Vanadium	17	mg/Kg		1.0
1098	1087-110-0.5	2/16/2010 1:20:31 PM	Soil	EPA 6010B	Zinc	22	mg/Kg		1.0
1099	1087-110-0.5	2/15/2010 3:56:12 PM	Soil	EPA 7471A	Mercury	0.13	mg/Kg		0.10
1100	1087-111-0.5	2/17/2010 3:37:57 PM	Soil	EPA 1311/ 7420	Lead	ND	mg/L		0.25
1101	1087-111-0.5	2/17/2010 12:34:56 PM	Soil	WET/ EPA 7420	Lead	0.72	mg/L		0.25
1102	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Antimony	ND	mg/Kg		2.0
1103	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Arsenic	3.6	mg/Kg		1.0
1104	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Barium	90	mg/Kg		1.0
1105	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Beryllium	ND	mg/Kg		1.0
1106	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Cadmium	ND	mg/Kg		1.0
1107	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Chromium	16	mg/Kg		1.0
1108	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Cobalt	4.2	mg/Kg		1.0
1109	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Copper	12	mg/Kg		2.0
1110	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Molybdenum	ND	mg/Kg		1.0
1111	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Nickel	26	mg/Kg		1.0
1112	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Selenium	ND	mg/Kg		1.0
1113	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Silver	ND	mg/Kg		1.0
1114	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Thallium	ND	mg/Kg		1.0
1115	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Vanadium	20	mg/Kg		1.0
1116	1087-111-0.5	2/16/2010 1:24:56 PM	Soil	EPA 6010B	Zinc	31	mg/Kg		1.0
1117	1087-111-0.5	2/15/2010 3:58:15 PM	Soil	EPA 7471A	Mercury	ND	mg/Kg		0.10
1118	1087-114-0.5	2/22/2010 10:09:02 AM	Soil	EPA 1311/ 7420	Lead	0.30	mg/L		0.25
1119	1087-114-0.5	2/22/2010 9:17:38 AM	Soil	WET/ EPA 7420	Lead	ND	mg/L		0.25

California Regional Water Quality Control Board
Los Angeles Region

320 W. 4th Street, Suite 200, Los Angeles, California 90013
(213) 576-6600 • FAX (213) 576-6640
http://www.waterboards.ca.gov/losangeles

Matthew Rodriquez
Secretary for
Environmental Protection

Edmund G. Brown Jr.
Governor

Ms. Sarah E. Baker
Caltrans
100 S. Main Street, MS 16A
Los Angeles, CA 90012

WATER QUALITY CERTIFICATION FOR PROPOSED VEN 1 SEAWALL REPLACEMENT PROJECT (Corps' Project No. 2011-00528-TS), PACIFIC OCEAN AND JAVON CANYON CREEK, CITY OF FARIA, VENTURA COUNTY (File No. 11-092)

Dear Ms. Baker:

Board staff has reviewed your request on behalf of Caltrans (Applicant) for a Clean Water Act Section 401 Water Quality Certification for the above-referenced project. Your application was deemed complete on October 10, 2011.

I hereby issue an order certifying that any discharge from the referenced project will comply with the applicable provisions of sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards) of the Clean Water Act, and with other applicable requirements of State law. This discharge is also regulated under State Water Resources Control Board Order No. 2003 - 0017 - DWQ, "General Waste Discharge Requirements for Dredge and Fill Discharges that have received State Water Quality Certification" which requires compliance with all conditions of this Water Quality Certification.

The Applicant shall be liable civilly for any violations of this Certification in accordance with the California Water Code. This Certification does not eliminate the Applicant's responsibility to comply with any other applicable laws, requirements and/or permits.

Should you have questions concerning this Certification action, please contact Dana Cole, Section 401 Program, at (213) 576-5733.

Samuel Unger
Samuel Unger, P.E.
Executive Officer

Oct. 14, 2011
Date

DISTRIBUTION LIST

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(via electronic copy)
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906 Garden Street
Santa Barbara, CA 93101

Jessie Altstatt
Santa Barbara Channel Keeper
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Coastal Conservancy
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Theresa Stevens
U.S. Army Corps of Engineers
Regulatory Branch, Ventura Field Office
2151 Alessandro Drive, Suite 255
Ventura, CA 93001

Eric Rafinni (via electronic copy)
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Diane Noda
U.S. Fish and Wildlife Service
2493 Portola Road, Suite B
Ventura, CA 93003

ATTACHMENT A

Project Information
File No. 11-092

1. Applicant:

Sarah E. Baker
Caltrans
100 S. Main St. MS 16A
Los Angeles, CA 90012

Phone: (213) 897-0707 Fax: (213) 897-0685

2. Project Name: VEN 1 Seawall Replacement

3. Project Location: Faria, Ventura County

Latitude	Longitude
34.334374	-119.404502

4. Type of Project: Seawall Replacement

5. Project Purpose: Caltrans proposes to remove over 3,000 feet of two existing seawall structures (52-139M and 52-140M) near Solimar State Beach and the Community of Faria along Route 1 (PCH), in Ventura County at post miles 22.4 and 22.9 (Location 1) and 26.5 and 26.7 (Location 2) and replace them with reinforced concrete retaining walls on piles.

6. Project Description: The proposed project (Project) will increase public access to the beach by adding stairways at both locations and an ADA access ramp. Work will include the placement of cofferdams to protect the project site from wave activity. Work will include the following:

(1) Two-foot, six-inch cast-in-drilled-hole piles placed beneath the existing seawalls;

(2) Removal of any existing seawall ten feet below the top;

(3) Partial removal of the existing rock slope protection;

(4) Excavation of the unpaved roadway to a depth of two feet and

replacing it with new pavement;

(5) Reconstruction the existing drainage systems, and;

(6) Removal and replacement of coastal vegetation.

The Project will replace the existing culvert with a 6-foot by 4-foot box culvert. During construction, the creek will be diverted with sandbags at the diversion inlet with a pump intake feeding the discharged water into a baker tank or sediment settling basin, before being released into the Pacific Ocean.

Federal Agency/Permit:	U.S. Army Corps of Engineers NWP No. 03 (Permit No. 2011-00528-TS)
7. Other Required Regulatory Approvals:	California Department of Fish and Game Streambed Alteration Agreement
8. California Environmental Quality Act Compliance:	The proposed project was determined to be Categorically Exempt from CEQA pursuant to the CEQA Guidelines, Section 15302 Replacement or Reconstruction by Caltrans on October 12, 2011.
9. Receiving Water:	Ventura County Coastal Streams: Javon Canyon Creek (Hydrologic Unit No. 401.00) and the Pacific Ocean
10. Designated Beneficial Uses:	MUN*, IND, PROC, AGR, GWR, REC-1, REC-2, WARM, COLD, WILD, MIGR, SPWN, WET *Conditional beneficial use
11. Impacted Waters of the United States:	Non-wetland waters (streambed): 0.0125 temporary acres (15 linear feet) and 0.0002 permanent acres (13 linear feet). Ocean/Estuary/Bay: 3.82 temporary acres (3,354 linear feet) and 1.13 permanent acres (200 linear feet)

ATTACHMENT A

Project Information
File No. 11-092

12. Dredge Volume:	None
13. Related Projects Implemented/to be Implemented by the Applicant:	The Applicant has not identified any related projects carried out in the last 5 years or planned for implementation in the next 5 years.
14. Avoidance/ Minimization Activities:	The Applicant has proposed to implement several Best Management Practices, including, but not limited to, the following: • All work will be limited to the roadway or the unvegetated shoulder for the purposes of equipment maneuvering and traffic control. • At no time will any heavy equipment allowed on the sanded portion of the beach. • The Project will only authorize ten saltbushes removed which must be replaced at a 1:1 ratio. • A qualified biologist will be present for any work conducted within Javon Canyon Creek. • The construction site will be managed to prevent spills and control material, waste and non-stormwater. • Handling, storage, usage, and disposal will control material pollution and manage waste at the job site to prevent contact with storm drain systems and receiving waters. • Street sweeping will be conducted using machine-operated sweepers and will comply with the specifications *Caltrans Standard Specifications* Section titled, *Construction Site Management*, • Street sweeping will not void specifications for main residue collection included in other work activities, such as grooving, grinding, or asphalt concrete planing.

- The use of street sweeping as a water pollution control practice for sediment control and tracking control and will comply with the specifications *Caltrans Standard Specifications* Section titled, *Construction Site Management*.

- Constructing, maintaining, and removing of temporary covers used for soil stabilization and stockpile management will be implemented as described in the *SWPPP*.

- Portable temporary concrete washouts will be used for the removal and disposal of concrete waste by furnishing, maintaining, and removing of the portable temporary concrete washouts and will comply with the specifications in the *SWPPP*

- Temporary fences will be used and shall conform to the plan details and the specifications for permanent fence of similar character as provided in Section 80, *Fences* of the *Caltrans Standard Specifications*.

- Temporary gravel bag berms will be used for sediment control and the construction, maintenance, and removal of temporary gravel bag berms will comply with the specifications in the *SWPPP*.

- A temporary construction entrance will provide tracking control and will be Type 1, Type 2, or a combination, and will comply with the specifications in the *SWPPP*.

- Vegetation shall be cleared and grubbed only within the excavation and embankment slope lines, and shall conform to the provisions in Section 16, *Clearing and Grubbing* of the *Caltrans Standard Specifications*.

15. Proposed Compensatory Mitigation:

The Applicant has not proposed any compensatory mitigation due to the temporary nature of impacts associated with the project and the location of the project within a concrete lined channel.

16. Required Compensatory Mitigation:

<u>SEA WALL</u>
The project activities are to replace the failing concrete which is devoid of vegetation. The area design, cross-section and capacity will not be modified by the project. Since the project impacts are

temporary in nature, the Regional Board will not require any additional compensatory mitigation.

VEGETATED STREAMBED
The Applicant shall provide 0.0185 acres of mitigation.

See *Attachment B, Conditions of Certifications, Additional Conditions* for modifications and additions to the above proposed compensatory mitigation.

ATTACHMENT B

Conditions of Certification
File No. 11-092

STANDARD CONDITIONS

Pursuant to §3860 of Title 23 of the California Code of Regulations (23 CCR), the following three standard conditions shall apply to this project:

1. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to §13330 of the California Water Code and Article 6 (commencing with 23 CCR §3867).

2. This Certification action is not intended and shall not be construed to apply to any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to 23 CCR Subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.

3. Certification is conditioned upon total payment of any fee required pursuant to 23 CCR Chapter 28 and owed by the Applicant.

ADDITIONAL CONDITIONS

Pursuant to 23 CCR §3859(a), the Applicant shall comply with the following additional conditions:

1. The Applicant shall submit to this Regional Board copies of any other final permits and agreements required for this project, including, but not limited to, the U.S. Army Corps of Engineers' (ACOE) Section 404 Permit and the California Department of Fish and Game's (CDFG) Streambed Alteration Agreement. **These documents shall be submitted prior to any discharge to waters of the State.**

2. The Applicant shall adhere to the most stringent conditions indicated with either this Certification, the CDFG's Streambed Alteration Agreement, or the ACOE Section 404 Permit.

3. The Applicant shall comply with all water quality objectives, prohibitions, and policies set forth in the *Water Quality Control Plan, Los Angeles Region (1994),* as amended.

4. The Avoidance/Minimization activities proposed by the Applicant as described in Attachment A, No. 14, are incorporated as additional conditions herein.

5. The Applicant and all contractors employed by the Applicant shall have copies of this Certification, the approved and all other regulatory approvals for this project on site at all times and shall be familiar with all conditions set forth.

ATTACHMENT B

Conditions of Certification
File No. 11-092

6. Fueling, lubrication, maintenance, operation, and storage of vehicles and equipment shall not result in a discharge or a threatened discharge to waters of the State. At no time shall the Applicant use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment shall be located outside of waters of the State.

7. All excavation, construction, or maintenance activities shall follow best management practices to minimize impacts to water quality and beneficial uses. Dust control activities shall be conducted in such a manner that will not produce downstream runoff.

8. No construction material, spoils, debris, or any other substances associated with this project that may adversely impact water quality standards, shall be located in a manner which may result in a discharge or a threatened discharge to waters of the State. Designated spoil and waste areas shall be visually marked prior to any excavation and/or construction activity, and storage of the materials shall be confined to these areas.

9. All waste or dredged material removed shall be relocated to a legal point of disposal if applicable. A legal point of disposal is defined as one for which Waste Discharge Requirements have been established by a California Regional Water Quality Control Board, and is in full compliance therewith. Please contact the Land Disposal Unit at (213) 620-2253 for further information regarding the disposal of solid wastes.

10. The Applicant shall implement all necessary control measures to prevent the degradation of water quality from the proposed project in order to maintain compliance with the Basin Plan. The discharge shall meet all effluent limitations and toxic and effluent standards established to comply with the applicable water quality standards and other appropriate requirements, including the provisions of Sections 301, 302, 303, 306, and 307 of the Clean Water Act. This Certification does not authorize the discharge by the applicant for any other activity than specifically described in the 404 Permit.

11. The discharge shall not: a) degrade surface water communities and populations including vertebrate, invertebrate, and plant species; b) promote the breeding of mosquitoes, gnats, black flies, midges, or other pests; c) alter the color, create visual contrast with the natural appearance, nor cause aesthetically undesirable discoloration of the receiving waters; d) cause formation of sludge deposits; or e) adversely affect any designated beneficial uses.

12. The Applicant shall allow the Regional Board and its authorized representative entry to the premises, including all mitigation sites, to inspect and undertake any activity to determine compliance with this Certification, or as otherwise authorized by the California Water Code.

13. Application of pesticides must be supervised by a certified applicator and be in conformance with manufacturer's specifications for use. Compounds used must be appropriate to the

target species and habitat. All pesticides directed toward aquatic species must be approved by the Regional Board. Pesticide utilization shall be in accordance with State Water Resources Control Board Water Quality Order Nos. 2004-0008-DWQ and 2004-0009-DWQ.

14. The Applicant shall not conduct any construction activities within waters of the State during a rainfall event. The Applicant shall maintain **a five-day (5-day) clear weather forecast** before conducting any operations within waters of the State.

15. If rain is predicted after operations have begun, grading activities must cease immediately and the site must be stabilized to prevent impacts to water quality, and minimize erosion and runoff from the site.

16. The Applicant shall utilize the services of a qualified biologist with expertise in riparian assessments during any vegetation clearing activities. The biologist shall be available on site during construction activities to ensure that all protected areas are marked properly and ensure that no vegetation outside the specified areas is removed. The biologist shall have the authority to stop the work, as necessary, if instructions are not followed. The biologist shall be available upon request from this Regional Board for consultation within 24 hours of request of consultation.

17. No activities shall involve wet excavations (i.e., no excavations shall occur below the seasonal high water table). A minimum **5-foot** buffer zone shall be maintained above the existing groundwater level. If construction or groundwater dewatering is proposed or anticipated, the Applicant shall file a **Report of Waste Discharge** (ROWD) to this Regional Board and obtain any necessary NPDES permits/Waste Discharge Requirements prior to discharging waste.

    Sufficient time should be allowed to obtain any such permits (generally 180 days). If groundwater is encountered without the benefit of appropriate permits, the Applicant shall cease all activities in the areas where groundwater is present, file a Report of Waste Discharge to this Regional Board, and obtain any necessary permits prior to discharging waste.

18. All project and construction activities not included in this Certification, and which may require a permit, must be reported to the Regional Board for appropriate permitting. Bank stabilization and grading, as well as any other ground disturbances, are subject to restoration and revegetation requirements, and may require additional Certification action.

19. All surface waters, including ponded waters, shall be diverted away from areas undergoing grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. If surface water diversions are anticipated, the Applicant shall develop and submit a **Surface Water Diversion Plan** (plan) to this Regional

Board. The plan shall include the proposed method and duration of diversion activities, structure configuration, construction materials, equipment, erosion and sediment controls, and a map or drawing indicating the locations of diversion and discharge points. Contingency measures shall be a part of this plan to address various flow discharge rates. The plan shall be submitted prior to any surface water diversions. If surface flows are present, then upstream and downstream monitoring for the following shall be implemented:

- pH
- temperature
- dissolved oxygen
- turbidity
- total suspended solids(TSS)

Analyses must be performed using approved US Environmental Protection Agency methods, where applicable. These constituents shall be measured at least once prior to diversion and then monitored for on a daily basis during the first week of diversion and/or dewatering activities, and then on a weekly basis, thereafter, until the in-stream work is complete.

Results of the analyses shall be submitted to this Regional Board by the 15th day of each subsequent sampling month. A map or drawing indicating the locations of sampling points shall be included with each submittal. Diversion activities shall not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Downstream TSS shall be maintained at ambient levels. Where natural turbidity is between 0 and 50 Nephelometric Turbidity Units (NTU), increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%. Any such violations may result in corrective and/or enforcement actions, including increased monitoring and sample collection.

20. The Applicant shall restore the areas of TEMPORARY IMPACTS to waters of the United States and all other areas of temporary disturbance which could result in a discharge or a threatened discharge to waters of the State. Restoration shall include grading of disturbed areas to pre-project contours and revegetation with native species. Restored areas shall be monitored and maintained with native species as necessary for five years.

21. The Applicant shall provide COMPENSATORY MITIGATION to offset the proposed temporary loss of **0.0125** acres waters of the United States by creating, restoring or enhancing riparian habitat at a minimum **1:1** area replacement ratio (**0.0125 acres**).

22. The Applicant shall also provide compensatory mitigation for the proposed permanent impacts to **0.0002 acres** of vegetation within waters of the United States/Federal jurisdictional wetlands by creating restoring or enhancing riparian habitat at a minimum **3:1** area replacement ratio (**0.006 acres**). Total mitigation for temporary and permanent impacts shall be **0.0185 acres**.

ATTACHMENT B

Conditions of Certification
File No. 11-092

23. If the Applicant proposes funding to a third-party organization for the creation, restoration or enhancement for a total of **0.0185** acres, or a combination of on-site mitigation and in lieu fees for vegetated streambed riparian habitat within waters of the United States then funding shall apply to mitigation acreage only, exclusive of administrative costs. The mitigation site shall be located within the Ventura County Coastal Streams Watershed unless otherwise approved by this Regional Board. The Applicant shall submit a **Proposed Mitigation Report** which shall include:

    (a) Documentation from the third party indicating that funds have been used for mitigation acreage only, which do not include administrative costs.
    (b) The boundary of the mitigation site shall be clearly identified on a map of suitable resolution and quality and shall also be defined by latitude and longitude.
    (c) The type(s) of mitigation shall be described (e.g., removal of exotics and/or replanting with native species, etc.)
    (d) Success criteria shall be established.

    This information shall be submitted to this Regional Board for approval prior to any disturbance within waters of the United States and shall include copies of all agreements made between the Applicant and a third party organization regarding compensatory mitigation efforts.

24. The Applicant shall submit to this Regional Board **Annual Monitoring Reports** (Annual Reports) by **January 1st** of each year for a minimum period of **five (5) years** following this issuance of 401 Certification or until mitigation success has been achieved and documented. The Annual Reports shall describe in detail all of the project and construction activities performed during the previous year, and all restoration and mitigation efforts; including percent survival by plant species and percent cover. The Annual Reports shall describe the status of other agreements (e.g., mitigation banking) or any delays in the mitigation process. At a minimum the Annual Reports shall include the following documentation and answered appropriately whether or not mitigation has been performed:

    (e) Color photo documentation of the pre- and post-project and mitigation site conditions;

    (f) Geographical Positioning System (GPS) coordinates in decimal-degrees format outlining the boundary of the project and mitigation areas;

    (g) The overall status of project including a detailed schedule of work;

    (h) Copies of all permits revised as required in Additional Condition 1;

    (i) Water quality monitoring results for each reach (as required) compiled in an easy to interpret format;

(j) A certified Statement of "no net loss" of wetlands associated with this project;

(k) Discussion of any monitoring activities and exotic plant control efforts; and

(l) A certified Statement from the permittee or his/her representative that all conditions of this Certification have been met.

25. Prior to any subsequent maintenance activities within the subject drainages/basin, including clearing, maintenance by-hand, and/or the application of pesticides, the Applicant shall submit to this Regional Board a NOTIFICATION of any such activity. Notification shall include: (a) the proposed schedule; (b) a description of the drainage's/basin's existing condition/capacity; (c) the area of proposed temporary impact within waters of the State; (c) a description of any existing aquatic resources (e.g., wetland/riparian vegetation); and (d) any proposed compensatory mitigation. Notifications must be submitted a minimum of **three (3) weeks** prior to commencing work activities.

26. All applications, reports, or information submitted to the Regional Board shall be signed:

(a) For corporations, by a principal executive officer at least of the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which discharge originates.

(b) For a partnership, by a general partner.

(c) For a sole proprietorship, by the proprietor.

(d) For a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

27. Each and any report submitted in accordance with this Certification shall contain the following completed declaration:

"I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on the _____ day of _____ at _____.

_____ (Signature)

_____ (Title)"

28. All communications regarding this project and submitted to this Regional Board shall identify the Project File Number **11-092**. Submittals shall be sent to the attention of the 401 Certification Unit.

29. Any modifications of the proposed project may require submittal of a new Clean Water Act Section 401 Water Quality Certification application and appropriate filing fee.

30. The project shall comply with the local regulations associated with the Regional Board's **Municipal Stormwater Permit** issued to the Department of Transportation (Caltrans) under NPDES No. CAS000003 and Waste Discharge Requirements Order No. 99 - 06 - DWQ. This includes the Standard Urban Storm Water Mitigation Plan (SUSMP) and all related implementing local ordinances and regulations for the control of stormwater pollution from new development and redevelopment.

31. The project shall comply with all requirements of the National Pollutant Discharge Elimination System (NPDES) **General Permit** for Storm Water Discharges Associated with Construction Activity, Order No. 2009-009-DWQ. All stormwater treatment systems shall be located outside of any water of the State and shall not be used as a wetland or riparian mitigation credit.

32. Coverage under this Certification may be transferred to the extent the underlying federal permit may legally be transferred and further provided that the Applicant notifies the Executive Officer at least 30 days before the proposed transfer date, and the notice includes a written agreement between the existing and new Applicants containing a specific date of coverage, responsibility for compliance with this Certification, and liability between them.

33. The Applicant or their agents shall report any noncompliance. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time the Applicant becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Applicant becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

34. *Enforcement:*

    (a) In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies,

penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.

(b) In response to a suspected violation of any condition of this Certification, the State Water Resources Control Board (SWRCB) or Regional Water Quality Control Board (RWQCB) may require the holder of any permit or license subject to this Certification to furnish, under penalty of perjury, any technical or monitoring reports the SWRCB deems appropriate, provided that the burden, including costs, of the reports shall be a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

(c) In response to any violation of the conditions of this Certification, the SWRCB or RWQCB may add to or modify the conditions of this Certification as appropriate to ensure compliance.

35. This Certification shall expire **five (5) years** from date of this Certification. The Applicant shall submit a complete application prior to termination of this Certification if renewal is requested.

State of California -The Natural Resources Agency
DEPARTMENT OF FISH AND GAME
South Coast Region
3883 Ruffin Road
San Diego, CA 92123
(858) 467-4201
www.dfg.ca.gov

EDMUND G. BROWN, Jr, *Governor*
JOHN McCAMMAN, *Director*

August 29, 2011

Ms. Sarah E. Baker
California Department of Transportation
100 South Main Street MS 16A
Los Angeles, California 90012

Subject: Notification of Lake or Streambed Alteration No. 1600-2011-0148-R5
VEN 1 Seawall Replacement
Javon Canyon Creek – Tributary to the Pacific Ocean

Dear Ms. Sarah E. Baker:

As the Department of Fish and Game (Department) explained in a previous letter to you dated June 30, 2011, the Department had until August 24, 2011 to submit a draft Lake or Streambed Alteration Agreement (Agreement) to you or inform you that an Agreement is not required. The Department did not meet that date. As a result, by law, you may now complete the project described in your notification without an Agreement.

Please note that pursuant to Fish and Game Code section 1602(a)(4)(D), if you proceed with this project, it must be the same as described and conducted in the same manner as specified in the notification and any modifications to that notification received by the Department in writing prior to August 24, 2011. This includes completing the project within the proposed term and seasonal work period and implementing all avoidance and mitigation measures to protect fish and wildlife resources specified in the notification. If the term proposed in your notification has expired, you will need to re-notify the Department before you may begin your project. Beginning or completing a project that differs in any way from the one described in the notification may constitute a violation of Fish and Game Code section 1602.

Your notification includes, but is not limited to, the following information: Project activities propose to remove two existing seawall structures (52-139M and 52-140M) near Solimar State Beach and the community of Faria along State Route 1 (PCH) at post miles 22.4/22.9 (Location 1) and 26.5/26.7 (Location 2). During construction Javon Creek will be diverted with clean water diversion and filtered prior to entering the Pacific Ocean. Approximately 0.10 acres Javon Creek will permanently impacted during the installation of a new culvert. Existing vegetation (10 saltbushes) will be cleared to accommodate the installation effort. After construction activities the revegetation plan shall be implemented as proposed and vegetation fully installed by October 31, 2012; including supplemental watering if deemed necessary. There shall be no impacts to

nesting birds or roosting bats. Pre-construction surveys shall be conducted for amphibians, reptiles, and sensitive plant species before demolition activities occur. Animals discovered during surveys shall be relocated out of harms way further upstream of project related activities. Sensitive plants shall be avoided. All project specific Best Management Practices shall be implemented by Caltrans as proposed. Project related activities shall be completed by June 30, 2013.

Also note that while you are entitled to complete the project without an Agreement, you are still responsible for complying with other applicable local, state, and federal laws. These include, but are not limited to, the state and federal Endangered Species Acts, Federal Migratory Bird Treaty Act (MBTA) of 1918 (50 C.F.R. Section 10.13), Fish and Game Code sections 3503, 3503.5 and 3513 (nesting birds), 5650 (water pollution), and 5901 (fish passage).

Finally, if you decide to proceed with your project without an Agreement, you must have a copy of this letter and your notification with all attachments available at all times at the work site. If you have any questions regarding this matter, please contact Jamie Jackson at 805-382-6906 or jjackson@dfg.ca.gov.

Sincerely,

Jamie Jackson

Jamie Jackson
Staff Environmental Scientist

DEPARTMENT OF THE ARMY
Los Angeles District Corps of Engineers
Ventura Field Office
2151 Alessandro Drive, Suite 110
Ventura, California 93001

REPLY TO
ATTENTION OF

June 14, 2012

Regulatory Division

Sarah Baker
California Department of Transportation, District 7
100 South Main Street, MS16A,
Los Angeles, California 90012

DEPARTMENT OF THE ARMY NATIONWIDE PERMIT VERIFICATION

Dear Ms. Baker:

I am responding to your request of June 11, 2012 to reauthorize Department of the Army permit SPL-2011-00528-TS under the 2012 Nationwide Permit (NWP) program. You requested reauthorization because work on the VEN 1 Seawall project has not been initiated and work in waters of the U.S. is expected to be necessary beyond March 18, 2013.

Your proposed project, the VEN 1 Seawall project between post miles 22.54 and 22.9 near Solimar State Beach in Ventura County, California, would result in a discharge of dredged and/or fill material into waters of the United States and would place structures or consist of work in or affecting navigable waters of the United States. Therefore, pursuant to section 404 of the Clean Water Act (33 U.S.C. 1344; 33 C.F.R. parts 323 and 330) and section 10 of the Rivers and Harbors Act (33 U.S.C. 403), your proposed project requires a Department of the Army permit. .

I have determined construction of the VEN 1 Seawall project complies with NWP 3 (*Maintenance*), if conducted as described in your application.

Specifically, you are authorized to conduct the following regulated activities:

1. Demolish and reconstruct approximately 1,800 linear feet of existing seawall between post miles 22.54 and 22.9, and include an access ramp and stairs for public access in the reconstructed seawall.

For this NWP 3 verification letter to be valid, you must comply with all of the terms and conditions in Enclosure 1.

Furthermore, you must comply with the following non-discretionary Special Conditions listed below:

1. The permittee shall notify the Corps Regulatory Division of the date of commencement of operations not less than 14 calendar days prior to commencing work, and shall notify the Corps of the date of completion of operations at least five calendar days prior to such completion.

2. Copies of this permit shall be given to all Caltrans staff, contractors and subcontractors. A copy of this permit shall be maintained on the construction site for the duration of construction activities and shall be furnished to Corps personnel upon request.

3. Use of construction equipment on the beach is not authorized by this permit.

4. The Permittee shall clearly mark the limits of the workspace with flagging or similar means to ensure mechanized equipment does not enter preserved waters of the U.S. and riparian wetland/habitat areas. Adverse impacts to waters of the U.S. beyond the Corps-approved construction footprint are not authorized. Such impacts could result in permit suspension and revocation, administrative penalties, and/or substantial additional. Compensatory mitigation requirements.

5. Within 45 calendar days of completion of authorized work in waters of the U.S., the Permittee shall submit to the Corps Regulatory Division a post-project implementation memo indicating the date authorized impacts to waters of the U.S. ceased.

6. The permitted activity shall not interfere with the right of the public to free navigation on all navigable waters of the United States as defined by 33 C.F.R. Part 329.

7. The Permittee shall discharge only clean construction material suitable for use in the oceanic environment. The Permittee shall ensure no debris, soil, silt, sand, sawdust, rubbish, cement or concrete washings thereof, oil or petroleum products, from construction shall be allowed to enter into or placed where it may be washed by rainfall or runoff into waters of the United States. Upon completion of the project authorized herein, any and all excess material or debris shall be completely removed from the work area and disposed of in an appropriate upland site.

8. This Corps permit does not authorize you to take any threatened or endangered species, or adversely modify designated critical habitat. In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g., ESA Section 10 permit, or a Biological Opinion (BO) under ESA Section 7, with "incidental take" provisions with which you must comply.

9. Pursuant to 36 CFR section 800.13, in the event of any discoveries during construction of either human remains, archeological deposits, or any other type of historic property, the Permittee shall notify the Corps' Regulatory Division staff (Theresa Stevens, Ph.D. at 805-585-2146) and Corps' Archeology staff (Steve Dibble at 213-452-3849 or John

Killeen at 213-452-3861) within 24 hours. The Permittee shall immediately suspend all work in any area(s) where potential cultural resources are discovered. The Permittee shall not resume construction in the area surrounding the potential cultural resources until the Corps Regulatory Division re-authorized project construction, per 36 CFR section 800.13.

10. The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration , of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers Regulatory Division to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the united States. No claim shall be made against the United States on account of any such removal or alteration.

Your verification is valid through March 18, 2017. All NWPs will expire on March 18, 2017. It is incumbent upon you to remain informed of changes to the NWPs. A public notice of the change(s) will be issued when any of the NWPs are modified, reissued, or revoked. Furthermore, if you commence or are under contract to commence this activity before the date on which the relevant NWP is reissued, modified, or revoked, you will have twelve (12) months from the date of the reissuance, modification, or revocation of the NWP to complete the activity under the present terms and conditions of the relevant NWP.

A NWP does not grant any property rights or exclusive privileges. Additionally, it does not authorize any injury to the property, rights of others, nor does it authorize interference with any existing or proposed Federal project. Furthermore, it does not obviate the need to obtain other Federal, state, or local authorizations required by law.

Thank you for participating in our regulatory program. If you have any questions, please contact Theresa Stevens, Ph.D. at 805-585-2146 or via e-mail at theresa.stevens@usace.army.mil.

Please comment on your experience with Regulatory Division by accessing the Corps web-based customer survey form at: http://per2.nwp.usace.army.mil/survey.html.

"Building Strong and Taking Care of People!"

Sincerely,

Aaron O. Allen, Ph.D.
Chief, North Coast Branch
Regulatory Division

Enclosure Nationwide Permit General Conditions

LOS ANGELES DISTRICT
U.S. ARMY CORPS OF ENGINEERS

CERTIFICATE OF COMPLIANCE WITH DEPARTMENT OF THE ARMY NATIONWIDE PERMIT

Permit Number: *SPL-2011-00528-TS*

Name of Permittee: *Sarah Baker, California Department of Transportation, District 7*

Date of Issuance: *June 14, 2012*

Upon completion of the activity authorized by this permit and the mitigation required by this permit, sign this certificate, and return it to the following address:

U.S. Army Corps of Engineers, Los Angeles District
Regulatory Division
ATTN: CESPL-RG-SPL-2011-00528-TS
Ventura Field Office
2151 Alessandro Drive, Suite 110
Ventura, CA 93001

Please note that your permitted activity is subject to a compliance inspection by an Army Corps of Engineers representative. If you fail to comply with this Nationwide Permit, you may be subject to permit suspension, modification, or revocation procedures as contained in 33 C.F.R. § 330.5 or enforcement procedures such as those contained in 33 C.F.R. §§ 326.4 and 326.5.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit condition(s).

_____ _____
Signature of Permittee Date

Enclosure 1: NATIONWIDE PERMIT 3 *Maintenance*: TERMS AND CONDITIONS

1. Nationwide Permit 3 *Maintenance* Terms:

Your activity is authorized under Nationwide Permit 3 *Maintenance*, subject to the following terms:

3. *Maintenance*. (a) The repair, rehabilitation, or replacement of any previously authorized, currently serviceable, structure, or fill, or of any currently serviceable structure or fill authorized by 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized. This NWP authorizes the repair, rehabilitation, or replacement of those structures or fills destroyed or damaged by storms, floods, fire or other discrete events, provided the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes or tornadoes, this two-year limit may be waived by the district engineer, provided the permittee can demonstrate funding, contract, or other similar delays. (b) This NWP also authorizes the removal of accumulated sediments and debris in the vicinity of and within existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.) and the placement of new or additional riprap to protect the structure. The removal of sediment is limited to the minimum necessary to restore the waterway in the immediate vicinity of the structure to the approximate dimensions that existed when the structure was built, but cannot extend further than 200 feet in any direction from the structure. This 200 foot limit does not apply to maintenance dredging to remove accumulated sediments blocking or restricting outfall and intake structures or to maintenance dredging to remove accumulated sediments from canals associated with outfall and intake structures. All dredged or excavated materials must be deposited and retained in an upland area unless otherwise specifically approved by the district engineer under separate authorization. The placement of riprap must be the minimum necessary to protect the structure or to ensure the safety of the structure. Any bank stabilization measures not directly associated with the structure will require a separate authorization from the district engineer. (c) This NWP also authorizes temporary structures, fills, and work necessary to conduct the maintenance activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate. (d) This NWP does not authorize maintenance dredging for the primary purpose of navigation or beach restoration. This NWP does not authorize new stream channelization or stream relocation projects. Notification: For activities authorized by paragraph (b) of this NWP, the permittee must submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 27). Where maintenance dredging is proposed, the pre-construction notification must include information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals. (Sections 10 and 404) Note: This NWP authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the Clean Water Act Section 404(f) exemption for maintenance.

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as appropriate, in addition to any regional or case-specific conditions imposed by the division

engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP.

2. Nationwide Permit General Conditions: The following general conditions must be followed in order for any authorization by an NWP to be valid:

1. 1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.
   (b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.
   (c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.
(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.
(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.
(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.
(e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.
(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at http://www.fws.gov/ or http://www.fws.gov/ipac and http://www.noaa.gov/fisheries.html respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact

the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.
(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.
(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.
(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.
(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the

degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.
(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.
(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:
(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).
(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.
(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.
(2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.
(3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).
(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.
(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.
(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.
(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.
(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to

the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.
(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special

conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

_____
(Transferee)

_____
(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:
(a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;
(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and
(c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:
(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or
(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic

properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed project;

(3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and

(7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or

include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

(2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of intermittent and ephemeral stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

3. Regional Conditions for the Los Angeles District:

In accordance with General Condition Number 27, "Regional and Case-by-Case Conditions," the following Regional Conditions, as added by the Division Engineer, must be met in order for an authorization by any Nationwide to be valid:

1. For all activities in waters of the U.S. that are suitable habitat for federally listed fish species, the permittee shall design all road crossings to ensure that the passage and/or spawning of fish is not hindered. In these areas, the permittee shall employ bridge designs that span the stream or river, including pier- or pile-supported spans, or designs that use a bottomless arch culvert with a natural stream bed, unless determined to be impracticable by the Corps.

2. Nationwide Permits (NWP) 3, 7, 12-15, 17-19, 21, 23, 25, 29, 35, 36, or 39-46, 48-52 cannot be used to authorize structures, work, and/or the discharge of dredged or fill material that would result in the "loss" of wetlands, mudflats, vegetated shallows or riffle and pool complexes as defined at 40 CFR Part 230.40-45. The definition of "loss" for this regional condition is the same as the definition of "loss of waters of the United States" used for the Nationwide Permit Program. Furthermore, this regional condition applies only within the State of Arizona and within the Mojave and Sonoran (Colorado) desert regions of California. The desert regions in California are limited to four USGS Hydrologic Unit Code (HUC) accounting units (Lower Colorado -150301, Northern Mojave-180902, Southern Mojave-181001, and Salton Sea-181002).

3. When a pre-construction notification (PCN) is required, the appropriate U.S. Army Corps of Engineers (Corps) District shall be notified in accordance with General Condition 31 using either the South Pacific Division PCN Checklist or a signed application form (ENG Form 4345) with an attachment providing information on compliance with all of the General and Regional Conditions. The PCN Checklist and application form are available at: http://www.spl.usace.army.mil/regulatory. In addition, the PCN shall include:
   a. A written statement describing how the activity has been designed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States;
   b. Drawings, including plan and cross-section views, clearly depicting the location, size and dimensions of the proposed activity as well as the location of delineated waters of the U.S. on the site. The drawings shall contain a title block, legend and scale, amount (in cubic yards) and area (in acres) of fill in Corps jurisdiction, including both permanent and temporary fills/structures. The ordinary high water mark or, if tidal waters, the mean high water mark and high tide line, should be shown (in feet), based on National Geodetic Vertical Datum (NGVD) or other appropriate referenced elevation. All drawings for projects located within the boundaries of the Los Angeles District shall comply with the most current version of the *Map and Drawing Standards for the Los Angeles District Regulatory Division* (available on the Los Angeles District Regulatory Division website at: www.spl.usace.army.mil/regulatory/); and

   c. Numbered and dated pre-project color photographs showing a representative sample of waters proposed to be impacted on the project site, and all waters proposed to be avoided on and immediately adjacent to the project site. The compass angle and position of each photograph shall be documented on the plan-view drawing required in subpart b of this regional condition.

4. Submission of a PCN pursuant to General Condition 31 and Regional Condition 3 shall be required for all regulated activities in the following locations:
   a. All perennial waterbodies and special aquatic sites within the State of Arizona and within the Mojave and Sonoran (Colorado) desert regions of California, excluding the Colorado River in Arizona from Davis Dam to River Mile 261 (northern boundary of the Fort Mojave Indian Tribe Reservation). The desert region in California is limited to four USGS HUC accounting units (Lower

Colorado -150301, Northern Mojave-180902, Southern Mojave-181001, and Salton Sea-181002).

b. All areas designated as Essential Fish Habitat (EFH) by the Pacific Fishery Management Council (i.e., all tidally influenced areas - Federal Register dated March 12, 2007 (72 FR 11092)), in which case the PCN shall include an EFH assessment and extent of proposed impacts to EFH. Examples of EFH habitat assessments can be found at: http://www.swr.noaa.gov/efh.htm.

c. All watersheds in the Santa Monica Mountains in Los Angeles and Ventura counties bounded by Calleguas Creek on the west, by Highway 101 on the north and east, and by Sunset Boulevard and Pacific Ocean on the south.

d. The Santa Clara River watershed in Los Angeles and Ventura counties, including but not limited to Aliso Canyon, Agua Dulce Canyon, Sand Canyon, Bouquet Canyon, Mint Canyon, South Fork of the Santa Clara River, San Francisquito Canyon, Castaic Creek, Piru Creek, Sespe Creek and the main-stem of the Santa Clara River.

5. Individual Permits shall be required for all discharges of fill material in jurisdictional vernal pools, with the exception that discharges for the purpose of restoration, enhancement, management or scientific study of vernal pools may be authorized under NWPs 5, 6, and 27 with the submission of a PCN in accordance with General Condition 31 and Regional Condition 3.

6. Individual Permits shall be required in Murrieta Creek and Temecula Creek watersheds in Riverside County for new permanent fills in perennial and intermittent watercourses otherwise authorized under NWPs 29, 39, 42 and 43, and in ephemeral watercourses for these NWPs for projects that impact greater than 0.1 acre of waters of the United States. In addition, when NWP 14 is used in conjunction with residential, commercial, or industrial developments the 0.1 acre limit would also apply.

7. Individual Permits (Standard Individual Permit or 404 Letter of Permission) shall be required in San Luis Obispo Creek and Santa Rosa Creek in San Luis Obispo County for bank stabilization projects, and in Gaviota Creek, Mission Creek and Carpinteria Creek in Santa Barbara County for bank stabilization projects and grade control structures.

8. In conjunction with the Los Angeles District's Special Area Management Plans (SAMPs) for the San Diego Creek Watershed and San Juan Creek/Western San Mateo Creek Watersheds in Orange County, California, the Corps' Division Engineer, through his discretionary authority has revoked the use of the following 26 selected NWPs within these SAMP watersheds: 03, 07, 12, 13, 14, 16, 17, 18, 19, 21, 25, 27, 29, 31, 33, 39, 40, 41, 42, 43, 44, 46, 49, and 50. Consequently, these NWPs are no longer available in those watersheds to authorize impacts to waters of the United States from discharges of dredged or fill material under the Corps' Clean Water Act section 404 authority.

9. Any requests to waive the 300 linear foot limitation for intermittent and ephemeral streams for NWPs 29, 39, 40 and 42, 43, 44, 51 and 52 or to waive the 500 linear foot limitation along the bank for NWP 13, must include the following:

a. A narrative description of the stream. This should include known information on: volume and duration of flow; the approximate length, width, and depth of the waterbody and characters observed associated with an Ordinary High Water Mark (e.g. bed and bank, wrack line, or scour marks); a description of the adjacent vegetation community and a statement regarding the wetland status of the associated vegetation community (i.e. wetland, non-wetland); surrounding land use; water quality; issues related to cumulative impacts in the watershed, and; any other relevant information.

b. An analysis of the proposed impacts to the waterbody in accordance with General Condition 31 and Regional Condition 3;
c. Measures taken to avoid and minimize losses, including other methods of constructing the proposed project; and
d. A compensatory mitigation plan describing how the unavoidable losses are proposed to be compensated, in accordance with 33 CFR Part 332.

10. The permittee shall complete the construction of any compensatory mitigation required by special condition(s) of the NWP verification before or concurrent with commencement of construction of the authorized activity, except when specifically determined to be impracticable by the Corps. When mitigation involves use of a mitigation bank or in-lieu fee program, the permittee shall submit proof of payment to the Corps prior to commencement of construction of the authorized activity.

4. Further information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
   (x) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
   (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).
   ( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.
   (a) This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
   (b) This permit does not grant any property rights or exclusive privileges.
   (c) This permit does not authorize any injury to the property or rights of others.
   (d) This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
   (a) Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
   (b) Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
   (c) Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
   (d) Design or construction deficiencies associated with the permitted work.
   (e) Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
   (a) You fail to comply with the terms and conditions of this permit.
   (b) The information provided by you in support of your permit application proves to have been false,

incomplete, or inaccurate (See 4 above).

(c) Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 330.5 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measure ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. This letter of verification is valid for a period not to exceed two years unless the nationwide permit is modified, reissued, revoked, or expires before that time.

7. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition H below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

8. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished with the terms and conditions of your permit.

STATE OF CALIFORNIA—NATURAL RESOURCES AGENCY EDMUND G. BROWN, JR., *GOVERNOR*

CALIFORNIA COASTAL COMMISSION

89 SO. CALIFORNIA STREET #200
VENTURA, CA 93001
(805) 585-1800
(805) 641-1732 FAX

Date: June 8, 2012
Permit Application No. 4-11-026

COASTAL DEVELOPMENT PERMIT

On May 9, 2012, the California Coastal Commission granted to California Department of Transportation, permit 4-11-026 subject to the attached Standard and Special Conditions, for development consisting of: Demolish approximately 1,800 linear ft. of existing seawall and replace with a new seawall of the same length and height in a further landward location; remove approximately 1,800 linear ft., 12 ft. wide existing rock revetment located immediately seaward of the existing seawall to be demolished; construct a new public access stairway and a new public access ramp to the beach; install three new public access signs and two new ADA-compliant parking spaces and signs; and repair and pave existing adjacent road shoulder and bicycle lane areas. This permit is more specifically described in the application on file in the Commission offices.

The development is within the coastal zone in Ventura County at Pacific Coast Highway between Postmile 22.54 and 22.9, Ventura .

Issued on behalf of the California Coastal Commission by,

CHARLES LESTER
Executive Director

Jacqueline Blaugrund

By: Jacqueline Blaugrund
Coastal Planner

ACKNOWLEDGMENT:

The undersigned permittee acknowledges receipt of this permit and agrees to abide by all terms and conditions thereof.

The undersigned permittee acknowledges that Government Code Section 818.4 which states in pertinent part, that: "A public entity is not liable for injury caused by the issuance. . . of any permit. . . " applies to the issuance of this permit.

IMPORTANT: THIS PERMIT IS NOT VALID UNLESS AND UNTIL A COPY OF THE PERMIT WITH THE SIGNED ACKNOWLEDGEMENT HAS BEEN RETURNED TO THE COMMISSION OFFICE. 14 Cal. Admin. Code Section 13158(a).

6/11/12
Date

Permittee

STANDARD CONDITIONS:

1. **Notice of Receipt and Acknowledgment.** The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.

2. **Expiration.** If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.

3. **Interpretation.** Any questions of intent or interpretation of any condition will be resolved by the Executive Director or the Commission.

4. **Assignment.** The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.

5. **Terms and Conditions Run with the Land.** These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.

SPECIAL CONDITIONS:

1. **Removal of Rock Revetment and Construction of Public Access Improvements.**

The applicant shall, by accepting this permit, agree and ensure that:

A. Where the new seawall is proposed, all portions of both the existing seawall and the rock revetment seaward of the existing seawall would be removed to a minimum depth of two feet below the lowest expected seasonal beach sand profile, which typically occurs during the late winter and early spring seasons.

B. Removal of all portions of the existing rock revetment within the project reach and construction of the new public access stairway, and the public access ramp shall be completed prior to, or concurrent with, the construction of the new seawall authorized by the approval of this permit. Striping for the ADA-compliant parking spaces and placement of public access signage shall be completed concurrent with, or immediately following completion of paving the road shoulder.

C. Improvement of a public access path from Pacific Coast Highway to the sandy beach, consistent with the provisions of Special Condition Two (2), shall be completed prior to, or concurrent with, the construction of the new seawall authorized by the approval of this permit.

2. **Revised Plans/Documentation**

A. ***Prior to issuance of the Coastal Development Permit***, the applicant shall submit for the review and approval of the Executive Director, two sets of revised project plans. The final revised project plans and project description shall reflect the following:

(1) Improvement of an informal public pedestrian access path from Pacific Coast Highway to the sandy beach upcoast and within approximately 500 linear ft. of the upcoast terminus of the new seawall. The informal public access path shall be a minimum of 3 ft. in width to provide pedestrian access through and over a segment of the existing rock revetment and shall include reconfiguration of the rock within the revetment to: (a) create an opening and path through the revetment at street level and (b) reconfigure existing rock within the revetment to form "steps" to allow pedestrian access to the beach at lower beach sand elevations.

(2) All references to temporary installation of fencing and/or stockpile areas located on the sandy beach portion of the subject site shall be deleted in their entirety. Any temporary stockpile and staging areas on site shall be located landward of the existing seawall.

(3) Replacement of the 3 foot, six inch high concrete barrier proposed in Exhibit 7 with the lowest profile and most visually permeable barrier that may be applied to the project consistent with applicable safety standards, including consideration of potential storm wave run-up and deposition of debris.

B. The Permittee shall undertake development in accordance with the final approved plans. Any proposed changes to the approved final plans shall be reported to the Executive Director. No changes to the approved final plans shall occur without a Coastal Commission approved amendment to the Coastal Development Permit, unless the Executive Director determines that no amendment is legally required.

3. **Biological Monitoring During Construction**

The applicant shall retain the services of a qualified biologist or environmental resources specialist (hereinafter, "environmental resources specialist") with appropriate qualifications acceptable to the Executive Director, to monitor the site during construction activities and conduct California Grunion pre-construction surveys. Prior to commencement of development, the applicant shall submit the contact information of all monitors with a description of their duties and their on-site schedule to the Executive Director for review and approval. The applicant shall ensure that the Environmental Specialist shall perform all of the following duties, and the applicant shall observe the following requirements:

A. If any construction activity occurs on the sandy beach including but not limited to, removal of the existing seawall and rock revetment, between March 1st and September 1st, then the applicant shall have the environmental resource specialist conduct a survey of the project site, to determine presence of California Grunion during the seasonally predicted run period and egg incubation period, as identified by the California Department of Fish and Game. If the environmental resources specialist determines that any grunion spawning activity is occurring and/or that grunion are present in or adjacent to the project site, then no construction/demolition activities shall occur on the area of the beach where grunion

have been observed to spawn until the next predicted run in which no grunion are observed. Surveys shall be conducted for all seasonally predicted run periods in which material is proposed to be placed or removed at any of the above sites. The applicant shall have the environmental resource specialist provide inspection reports after each grunion run observed and shall provide copies of such reports to the Executive Director and to the California Department of Fish and Game.

4. **Operations and Maintenance Responsibilities**

By accepting this permit, the applicant shall agree to comply with the following construction-related requirements:

A. The applicant shall not store or place any construction materials or waste where it will be or could potentially be subject to wave erosion and dispersion. In addition, no machinery shall be stored or placed in the intertidal zone at any time, except for that necessary to remove errant rocks from the beach seaward of the existing rock revetment.

B. Construction equipment shall not be cleaned on the beach or in the adjacent beach parking areas.

C. Construction debris and sediment shall be properly contained and secured on site with best management practices to prevent the unintended transport of sediment and other debris into coastal waters by wind, rain or tracking.

D. Construction debris and sediment shall be removed from construction areas as necessary to prevent the accumulation of sediment and other debris which may be discharged into coastal waters. Any and all debris resulting from construction activities shall be removed from the project site within 24 hours. Debris shall be disposed at a debris disposal site outside of the coastal zone or at a location within the coastal zone authorized to receive such material.

E. During construction activities authorized pursuant to this permit, the applicant shall be responsible for removing all unsuitable material or debris within the area of placement should the material be found to be unsuitable for any reason, at any time, when the presence of such unsuitable material/debris can reasonably be attributed to the placement material. Debris shall be disposed at a debris disposal site outside of the coastal zone or at a location within the coastal zone authorized to receive such material.

F. The applicant shall ensure that if additional sand is necessary to import, only sand that is of the same grain size and coloration shall be utilized. This sand should be beach quality and free of contaminants.

5. **Removal of Excavated Rock**

Prior to issuance of the Coastal Development Permit, the applicant shall provide evidence to the Executive Director of the location of the disposal site for all rock removed from the existing rock revetment on site. If the disposal site is located in the Coastal Zone, the disposal site must have a valid coastal development permit for the disposal of fill

material. If the disposal site does not have a coastal permit, such a permit will be required prior to the disposal of material.

6. **Structural Color**

Prior to the issuance of the Coastal Development Permit, the applicant shall submit for the review and approval of the Executive Director, a color sample for the surface of the seawall authorized by the approval of this permit. Acceptable colors shall be limited to those colors compatible with the surrounding environment, such as earth tones, including shades of tan and brown. The approved seawall shall be colored with only the color authorized pursuant to this special condition.

7. **Assumption of Risk, Waiver of Liability and Indemnity**

By acceptance of this permit, the applicant acknowledges and agrees (i) that the site may be subject to hazards from tsunami, storm waves, surges, and erosion; (ii) to assume the risks to the applicant and the property that is the subject of this permit of injury and damage from such hazards in connection with this permitted development; (iii) to unconditionally waive any claim of damage or liability against the Commission, its officers, agents, and employees for injury or damage from such hazards; and (iv) to indemnify and hold harmless the Commission, its officers, agents, and employees with respect to the Commission's approval of the project against any and all liability, claims, demands, damages, costs (including costs and fees incurred in defense of such claims), expenses, and amounts paid in settlement arising from any injury or damage due to such hazards.

Prior to issuance of the Coastal Development Permit, the applicant shall submit a written agreement, in a form and content acceptable to the Executive Director, incorporating all of the above terms of this condition.

FOR CONTRACT NO. 07-228204
PROJECT NO. 0700000378

INFORMATION HANDOUT

California State Land Commission, dated July 13, 2011

ROUTE: 07-LA-1 22.5/22.9

STATE OF CALIFORNIA EDMUND G. BROWN JR., *Governor*

CALIFORNIA STATE LANDS COMMISSION
100 Howe Avenue, Suite 100-South
Sacramento, CA 95825-8202

CURTIS L. FOSSUM, *Executive Officer*
(916) 574-1800 FAX (916) 574-1810
California Relay Service from TDD Phone **1-800-735-2929**
from Voice Phone **1-800-735-2922**

Contact Phone: **(916) 574-2275**
Contact FAX: **(916) 574-1835**

JUL 13 2011

File Ref: PRC 8926.9

Samer Momani
State of California, Department of Transportation
District 7, 100 S. Main Street
Los Angeles, CA 90012

Subject: Proposed Replacement of Existing Seawalls near Solimar Beach, Along State Highway Route 1, Ventura County

Dear Mr. Momani:

Enclosed is your fully executed Public Agency Permit, PRC 8926.9, for highway purposes, pursuant to section 101.5 of the California Streets and Highways Code.

Our Accounting Office will be notifying you regarding a refund due or balance outstanding on this project within 90 days from the date of this letter.

The Commission appreciates your cooperation and patience in helping to complete this transaction. Please feel free to write or call if you have any questions.

Sincerely,

Drew Simpkin
Public Land Management Specialist

File Ref: W 26471

STATE OF CALIFORNIA
STATE LANDS COMMISSION

DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY MAPS

WHEREAS, the Department of Transportation, pursuant to the provisions of Section 101.5 of the Streets and Highways Code, has filed with the State Lands Commission maps, copies of which are attached hereto as Exhibit "A", and by reference made a part hereof, delineating and describing lands of the State of California situate near Solimar Beach, Ventura County, under the jurisdiction of the State Lands Commission needed for highway purposes; and

WHEREAS, the State Lands Commission, under the provisions of Section 6210.3 of the Public Resources Code, may award easements and rights-of-way to the Department of Transportation for purposes of rights-of-way for highways and for use in protecting highways from damage or destruction by natural forces.

NOW, THEREFORE, as provided for in and pursuant to Section 101.5 and Section 6210.3 and in consideration of the deposit by the Department of Transportation of appropriate funds into the State Parks and Recreation Fund, the State Lands Commission does hereby reserve and convey a right-of-way for the Department of Transportation on the lands described on said maps, and authorizes the approval of said maps, subject, however, to the following conditions:

1. The right-of-way granted hereby may be released at any time by written certificate of the Director of the Department of Transportation (DOT), filed with the State Lands Commission (SLC); but if after said DOT has entered upon and used said right-of-way for any of the purposes specified in Section 6210.3 of the Public Resources Code and such use or uses have been discontinued for a consecutive period of 365 days and said right-of-way has not been released as provided above, said right-of-way shall, at the option of the SLC, and upon written notice to said DOT, cease and terminate.

2. There is retained by the SLC the right to convey, issue, or otherwise transfer rights in the lands that are subject to this right-of-way, subject and subordinate to the rights of the DOT therein. There is also retained by said SLC on the right to grant permits, leases, or easements, for crossings over, upon and under said lands, provided, however, that any such easement or crossing within 100 feet of the surface of such lands shall be in a form and manner acceptable to, and shall be expressly approved by said DOT.

3. All tools, equipment, or other property taken onto or placed upon the right-of-way by the DOT shall remain the property of the DOT. Such property shall be properly removed by the DOT, at its sole risk and expense.

4. The SLC is not responsible for any damage to any property, including any equipment, tools, or machinery within the right-of-way.

5. The DOT shall require its contractors to maintain logbooks during construction operations conducted within the right-of-way to keep track of all debris created by objects of any kind that fall into the water. The log book should include the type of debris, date, time, and location to facilitate identification and location of debris for recovery and site clearance verification.

6. The DOT shall notify the SLC 30 days prior to commencement of construction activities within the right-of-way. The DOT shall provide to the SLC a construction schedule time line chart showing all significant work activities that will take place during the course of the construction project. The DOT will submit upon immediate receipt from its contractors or at least 15 days prior to construction a copy of the construction contractor's work execution plan that provides the details including but not limited to the manpower, equipment, construction methods, and procedures to be employed for each significant activity.

7. All construction activities shall be carried out in accordance with all applicable safety regulations, permits and conditions of other involved agencies.

8. No refueling, maintenance, or repairs to any equipment or vehicles will be permitted within the right-of-way.

9. Upon completion of the two seawall replacement projects, the DOT will provide the SLC a copy of as-built drawings confirming that all structures and improvements were completed according to design specifications as submitted with the application. The DOT shall also provide descriptive photographs of the completed project.

10. The DOT shall agree to indemnify, hold harmless and, at the option of the SLC, defend the SLC, its agencies, officers, agents, and employees, against and for any and all liability, claims, damages, or injuries of any kind and from any cause arising out of or connected in any way with any actions by the DOT regarding this right-of-way.

This agreement will become binding on the State only when duly executed on behalf of the State Lands Commission of the State of California.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the date hereafter affixed.

DEPARTMENT OF TRANSPORTATION*

By: Dan Gundersen

Title: RW Office Chief

Date: 6-13-11

STATE OF CALIFORNIA
STATE LANDS COMMISSION

By: [signature]

Date: JUL 13 2011

Approval of the Right-of-Way Map was authorized by the State Lands Commission on: June 23, 2011

* If the document is executed by any person other than the Director of the Department of Transportation, a certified copy of the executor's authority must be attached hereto.

ACKNOWLEDGMENT

State of California
County of Los Angeles)

On June 13, 2011 before me, Kirk Hsu, Notary Public
(insert name and title of the officer)

personally appeared Dan Murdoch,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

KIRK HSU
Commission # 1900024
Notary Public - California
Los Angeles County
My Comm. Expires Aug 16, 2014

Signature _____ (Seal)