

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/18/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: P28/JST

Well ID: MW-4 Depth (ft.): 513
 Sampling Zone No.: 5
 Starting Time: 1305 Finishing Time: 1330

Water Pressure Inside MP Casing - Beginning of Session: 138.29
 End of Session: 138.33

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	138.29	✓	116.12	✓	126.20	✓	✓	138.33	1325	8.92	48	20.5	.464
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Notes: _____

WATER IS CLEAR, NO ODOOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PREJOUT

Well ID: MW-4 Depth (ft.): 392
 Sampling Zone No.: 4
 Starting Time: 1333 Finishing Time: 1355

Date: 10/18/01

Water Pressure Inside MP Casing - Beginning of Session: 85.62
 End of Session: 85.63

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	85.62	✓	123.90	✓	123.93	✓	✓	85.63	1350	8.81	6	21.9	.442
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.5 LITERS

Groundwater Sampling
Field Data Sheet for Multi-Port Well
Date: 10/18/01

Project Name: JPL Pasadena
Project No: 00HW019
Personnel: PRJ/JNT

Well ID: MW-4 Depth (ft.): 322
Sampling Zone No.: 3
Starting Time: 1400 Finishing Time: 1418

Water Pressure Inside MP Casing - Beginning of Session: 55.58
End of Session: 55.62

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	55.58	✓	98.90	✓	98.91	✓	✓	55.62	1415	7.87	52	22.2	.399
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Notes:

WATER HAD A SLIGHT ORANGE TINT, NO ODOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/18/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PREJNT

Well ID: MW-4 Depth (ft.): 240
 Sampling Zone No.: 2
 Starting Time: 1420 Finishing Time: 1500

Water Pressure Inside MP Casing -

Beginning of Session: 19.84
 End of Session: 18.84

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	19.84	✓	64.27	✓	64.28	✓	✓	19.85	1440	8.20	53	22.1	.740
2	✓	✓	✓	✓	✓	✓	18.81	✓	64.27	✓	64.29	✓	✓	18.84					
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Notes:

MS/MSD SAMPLE, WATER HAD A SLIGHT PINK TINT,
NO ODOUR

Total Volume: 3
1.5 LITERS
PRE

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PJO/JWT

Well ID: MW-4 Depth (ft.): 150
 Sampling Zone No.: 1
 Starting Time: 1505 Finishing Time: 1345

Date: 10/18/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.12
 End of Session: 14.14

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.12	✓	28.06	✓	28.08	✓	✓	14.11	1325	8.54	47	24.2	.357
2	✓	✓	✓	✓	✓	✓	14.13	✓	28.07	✓	28.09	✓	✓	14.14					
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Notes:

MW-4-1D IS A FIELD DUPLICATE, TAKEN AFTER
REVERSE SAMPLE (MW-4-1) WATER IS CLEAR, NO ODOR

Total Volume: 3 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PEJ/JNT

Well ID: MW-22 Depth (ft.): 467
 Sampling Zone No.: 4
 Starting Time: 0930 Finishing Time: 0953

Date: 10/19/01

Water Pressure Inside MP Casing -

Beginning of Session:

81.83

End of Session:

81.85

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	81.83	✓	119.99	✓	119.99	✓	✓	81.85	0950	8.81	54	19.8	.323
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Notes:

WATER IS CLEAR, STRONG ROTTER EGG ODORTotal Volume: 1 LITER

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/19/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PEO/JWT

Well ID: MW-22 Depth (ft.): 389
 Sampling Zone No.: 3
 Starting Time: 0955 Finishing Time: 1012

Water Pressure Inside MP Casing - Beginning of Session: 48.39
 End of Session: 48.39

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	48.39	✓	94.06	✓	94.08	✓	✓	48.39	1010	8.86	5	19.9	.481
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Notes: _____

WATER IS CLEAR, NO ODOORTotal Volume: 1 LITER

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRO/JNT

Well ID: MW-22 Depth (ft.): 329
 Sampling Zone No.: 2
 Starting Time: 1014 Finishing Time: 1035

Date: 10/19/01

Water Pressure Inside MP Casing - Beginning of Session: 23.27
 End of Session: 23.27

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	23.27	✓	16.8 23.27	✓	67.87	✓	✓	23.27	1033	8.87	50	19.8	.565
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Notes: _____

WATER IS CLEAR, NO ODOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRS/JNT

Well ID: MW-22 Depth (ft.): 245
 Sampling Zone No.: 1
 Starting Time: 1038 Finishing Time: 1100

Date: 10/19/01

Water Pressure Inside MP Casing - Beginning of Session: 14.10
 End of Session: 14.12

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.10	✓	31.18	✓	31.21	✓	✓	14.12	1055	8.15	8	20.0	1.17
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Notes: _____

WATER IS CLEAR, NO ODORTotal Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: RES/JNT

Well ID: MW-14 Depth (ft.): 540
 Sampling Zone No.: 5
 Starting Time: 1030 Finishing Time: 1112

Water Pressure Inside MP Casing - Beginning of Session: 141.19
 End of Session: 141.20

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	725	✓	725	✓	165.23	✓	✓	141.20	1110	9.22	11	19.8	.332
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Notes: WATER IS CLEAR, NO ODOUR

Total Volume: 1 LITER

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRS/JST

Well ID: MW-14 Depth (ft.): 456
 Sampling Zone No.: 4
 Starting Time: 1115 Finishing Time: 1153

Date: 10/22/01

Water Pressure Inside MP Casing -

Beginning of Session: 105.63
 End of Session: 105.64

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	105.63	✓	129.00	✓	129.00	✓	✓	105.64	1150	8.87	6	19.9	.547
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Notes: _____

WATER IS CLEAR, NO ODO2Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/22/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PKS/JNT

Well ID: MW-14 Depth (ft.): 382
 Sampling Zone No.: 3
 Starting Time: 1155 Finishing Time: 1255

Water Pressure Inside MP Casing - Beginning of Session: 73.35
 End of Session: 73.38

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	73.35	✓	96.90	✓	96.90	✓	✓	73.38	1250	8.66	55	21.0	1.08
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Notes: _____

WATER IS CLEAR, NO ODOOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRE/JNT

Well ID: MW-14 Depth (ft.): 277
 Sampling Zone No.: 2
 Starting Time: 1300 Finishing Time: 1322

Date: 10/22/01

Water Pressure Inside MP Casing -

Beginning of Session: 27.60
 End of Session: 27.60

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	27.60	✓	51.11	✓	51.10	✓	✓	27.60	1320	8.81	53	20.9	1.26
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/22/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PJS/JNT

Well ID: MW-14 Depth (ft.): 207
 Sampling Zone No.: 1
 Starting Time: 1328 Finishing Time: 1357

Water Pressure Inside MP Casing - Beginning of Session: 14.11
 End of Session: 14.12

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.11	✓	20.60	✓	20.62	✓	✓	14.12	1355	8.04	3	23.7	1.32
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Notes: WATER IS CLEAR, NO ODOOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/23/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRS/JNT

Well ID: MW-12 Depth (ft.): 548
 Sampling Zone No.: 5
 Starting Time: 1130 Finishing Time: 1220

Water Pressure Inside MP Casing - Beginning of Session: 134.22
 End of Session: 134.24

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	134.22	✓	158.04	✓	158.04	✓	✓	134.24	1215	8.72	8	20.2	.426
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Notes: _____

WATER IS CLEAR, NO OOR

Total Volume: 1 LITER

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: DRE/JNT

Well ID: MW-12 Depth (ft.): 436
 Sampling Zone No.: 4
 Starting Time: 1223 Finishing Time: 1250

Date: 10/23/01

Water Pressure Inside MP Casing - Beginning of Session: 85.49
 End of Session: 85.48

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	85.49	✓	135.82	✓	135.84	✓	✓	85.48	1246	8.93	51	20.4	.420
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Notes: _____

Water is clear, no odor

Total Volume: 1 Liter

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/23/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRO/JNT

Well ID: MW-12 Depth (ft.): 323
 Sampling Zone No.: 3
 Starting Time: 1253 Finishing Time: 1425

Water Pressure Inside MP Casing - Beginning of Session: 37.26
 End of Session: 205 37.27 36.71

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	37.26	✓	92.03	✓	92.03	✓	✓	37.27	1345	8.83	7	19.9	.441
2	✓	✓	✓	✓	✓	✓	36.71	✓	92.03	✓	92.03	✓	✓	36.71					
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Notes: MS/MSO SAMPLE WATER IS CLEAR, NO ODOOR

Total Volume: 3 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRS/JST

Well ID: MW-12 Depth (ft.): 243
 Sampling Zone No.: 2
 Starting Time: 1430 Finishing Time: 1515

Date: 10/23/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.07
 End of Session: 14.08

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.07	✓	58.22	✓	58.22	✓	✓	14.13	1500	8.74	5	23.2	.439
2	✓	✓	✓	✓	✓	✓	14.06	✓	58.24	✓	58.25	✓	✓	14.08					
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Notes:

MW-12-2D IS A FIELD DUPLICATE, TAKEN AFTER REGULAR
SAMPLE (MW-12-2) WATER IS CLEAR, NO ODOR

Total Volume: 3 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/23/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: RES/JNT

Well ID: MW-12 Depth (ft.): 140
 Sampling Zone No.: 1
 Starting Time: 1520 Finishing Time: 1605

Water Pressure Inside MP Casing - Beginning of Session: 14.03
 End of Session: 14.10

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.03	✓	16.16	✓	16.20	✓	✓	14.10	1550	8.89	57	22.3	.379
2	✓	✓	✓	✓	✓	✓	14.05	✓	16.17	✓	16.21	✓	✓	14.10					
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Notes: _____

WATER IS CLEAR, NO ODOOR

Total Volume: 1.5 LITER

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/24/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRS/JNT

Well ID: MW-23 Depth (ft.): 542
 Sampling Zone No.: 5
 Starting Time: 0930 Finishing Time: 1045

Water Pressure Inside MP Casing - Beginning of Session: 159.93
 End of Session: 159.93

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	159.93	✓	178.4	✓	178.19	✓	✓	159.93	1040	10.12	11	20.4	.356
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Notes: WATER IS CLEAR, NO 0002

Total Volume: 1 LITER

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRS/JNT

Well ID: YMW-23 Depth (ft.): 445
 Sampling Zone No.: 4
 Starting Time: 1047 Finishing Time: 1218

Date: 10/24/01

Water Pressure Inside MP Casing - Beginning of Session: 118.77
 End of Session: 118.79

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	118.77	✓	136.40	✓	136.39	✓	✓	118.79	1215	8.85	84	21.5	.357
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Notes: WATER IS CLEAR, NO ODOOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRJ/JNT

Well ID: MW-23 Depth (ft.): 319
 Sampling Zone No.: 3
 Starting Time: 1220 Finishing Time: 1400

Date: 10/24/01

Water Pressure Inside MP Casing - Beginning of Session: 64.59
 End of Session: 63.97

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	64.49	✓	91.05	✓	91.08	✓	✓	64.50	1310	8.75	71	21.9	.390
2	✓	✓	✓	✓	✓	✓	63.94	✓	91.05	✓	91.07	✓	✓	63.97					
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Notes:

MS/MSD sampleWATER IS CLEAR, NO ODO2Total Volume: 3 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRS/JNT

Well ID: MW-23 Depth (ft.): 254
 Sampling Zone No.: 2
 Starting Time: 1407 Finishing Time: 1500

Date: 10/24/01

Water Pressure Inside MP Casing -

Beginning of Session: 36.10
 End of Session: 35.58

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	36.10	✓	62.89	✓	62.90	✓	✓	36.11	1430	8.38	10	21.1	1.05
2	✓	✓	✓	✓	✓	✓	35.57	✓	62.84	✓	62.91	✓	✓	35.58					
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Notes: MW-23-2D IS A FIELD DUPLICATE, TAKEN AFTER
REGULAR SAMPLE (MW-23-2) WATER IS CLEAR, NO ODOOR

Total Volume: 3 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: RED JNT

Well ID: MW-23 Depth (ft.): 174
 Sampling Zone No.: 1
 Starting Time: 1505 Finishing Time: 1540

Date: 10/24/01

Water Pressure Inside MP Casing -

Beginning of Session: 14.07
 End of Session: 14.14

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.07	✓	29.09	✓	29.09	✓	✓	14.14	1530	8.18	8	22.8	1.22
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11																			
12																			

Notes: WATER IS CLEAR, NO ODOUR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/25/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRS/JNT

Well ID: MW-11 Depth (ft.): 524
 Sampling Zone No.: 4
 Starting Time: 1030 Finishing Time: 1148

Water Pressure Inside MP Casing - Beginning of Session: 123.30
 End of Session: 123.32

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	123.30	✓	158.73	✓	158.74	✓	✓	123.32	1145	9.35	57	21.4	.355
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Notes: _____

WATER IS CLEAR, NO ODOR

Total Volume: 1 LITER

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRJ/JUT

Well ID: MW-11 Depth (ft.): 429
 Sampling Zone No.: 3
 Starting Time: 1150 Finishing Time: 1253

Date: 10/25/01

Water Pressure Inside MP Casing -

Beginning of Session: 83.39
 End of Session: 83.40

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	83.39	✓	120.96	✓	120.95	✓	✓	83.40	1250	8.66	9	22.8	,373
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Notes: WATER IS CLEAR, NO 0002

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRJ JNT

Well ID: MW-11 Depth (ft.): 259
 Sampling Zone No.: 2 1403
 Starting Time: 1300 Finishing Time: 1300
 Beginning of Session: 14.15
 End of Session: 14.15
PRJ

Date: 10/25/01

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.15	✓	53.06	✓	53.06	✓	✓	14.15	1400	8.39	12	23.0	.396
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Notes: _____

WATER IS CLEAR, NO ODOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PRJ/JNT

Well ID: MW-11 Depth (ft.): 149
 Sampling Zone No.: 1
 Starting Time: 1405 Finishing Time: 1445

Date: 10/25/01

Water Pressure Inside MP Casing - Beginning of Session: 14.09
 End of Session: 14.11

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.09	✓	22.31	✓	22.33	✓	✓	14.11	1435	9.00	15	22.3	.491
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10																			
11																			
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Notes: WATER IS CLEAR, NO ODOOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/26/01

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PJL/JST

Well ID: MW-24 Depth (ft.): 554
 Sampling Zone No.: 4
 Starting Time: 0930 Finishing Time: 1022

Water Pressure Inside MP Casing - Beginning of Session: 115.62
 End of Session: 115.62

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	115.62	✓	141.20	✓	141.20	✓	✓	115.62	1020	9.15	124	21.1	.359
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Notes: _____

WATER IS CLEAR, NO ODOOR

Total Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: POS/JNT

Well ID: MW-24 Depth (ft.): 435
 Sampling Zone No.: 3
 Starting Time: 1025 Finishing Time: 1053

Date: 10/24/01

Water Pressure Inside MP Casing - Beginning of Session: 64.39
 End of Session: 64.38

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	64.39	✓	99.91	✓	99.92	✓	✓	64.38	1050	9.01	57	21.0	.424
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11																			
12																			

Notes: WATER IS SLIGHTLY CLOUDY, NO odor

Total Volume: 1.5 Liters

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 10/26/01Project Name: JPL PasadenaProject No: 00HW019Personnel: P25/JNTWell ID: MW-24Depth (ft.): 373Sampling Zone No.: 2Starting Time: 1055Finishing Time: 1120

Water Pressure Inside MP Casing -

Beginning of Session: 37.37End of Session: 37.39

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	37.37	✓	73.68	✓	73.67	✓	✓	37.39	1115	9.16	5	23.1	378
2																			
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.5 LITERS

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: PEJ/JNT

Well ID: MW-24 Depth (ft.): 279
 Sampling Zone No.: 1
 Starting Time: 1125 Finishing Time: 1145

Date: 10/26/01

Water Pressure Inside MP Casing - Beginning of Session: 14.09
 End of Session: 14.11

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.09	✓	34.02	✓	34.01	✓	✓	14.11	1140	8.91	8	24.4	381
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Notes: _____

WATER IS CLEAR, NO ODOORTotal Volume: 1.5 LITERS